

Looking to create a more sustainable world?

Master's in Strategic Leadership towards Sustainability

International Master's programme at
Blekinge Institute of Technology
Karlskrona, Sweden
www.bth.se/msls



A DIVERSITY OF PERSPECTIVES A COMMON VISION

Welcome to the Blekinge Institute of Technology (BTH) and the International Master's programme in Strategic Leadership towards Sustainability (MSLS). Sustainable development – meeting the needs of today without compromising the ability of future generations to meet their needs – is a global challenge that requires cooperation across borders and disciplines. To that end, the MSLS programme brings together a rich diversity of perspectives in a stimulating environment. To date, we've trained more than 200 students, conversant in more than 25 languages and representing over 45 countries. They have brought to the MSLS programme a wealth of experience in finance, architecture, management, entrepreneurship, teaching, chemistry, arts, engineering, and many other fields.

About BTH

Blekinge Institute of Technology/Blekinge Tekniska Högskola (BTH) is the most distinctly profiled university in Sweden, thanks to its strong emphasis on Applied Information Technology (IT) and Innovation for Sustainable Development. Both the education and research at BTH are of a high international standard, with practical learning serving as a focal point for students, teachers and researchers.

There are over 40 undergraduate programmes and 15 Master's programmes taught in either Swedish or English. The student population is about 5000 and many of these are international students.

BTH makes high demands on its staff when it comes to knowledge, theoretical and practical expertise, as well as performance in society. The Institute co-operates closely with business, government and community at the local, national and international level. In this way, our profile is firmly anchored in the needs and practices of modern society.



Using a solid scientific foundation, the programme begins by assessing and understanding society's current sustainability challenges. Building on this foundation, the curriculum introduces complementary skills in strategic management, organisational learning and change, engineering, economics, and effective collaboration. Through both our internal expertise and our partnerships with external organisations, the MSLS programme draws on the latest research and expertise from world-leading sustainability practitioners. Our graduates can attest to the rewarding experience and professional development opportunity the MSLS programme provides. As the world awakens to the challenges of sustainable development, we invite you to apply for this unique and innovative programme to develop the skills and knowledge required of today's leaders.

Studying the MSLS programme also provides the opportunity to explore the Swedish way of life by learning Swedish, visiting cultural attractions and the beautiful natural surroundings, and exploring the activities and initiatives around the country that make Sweden a leading nation on sustainability.

Career Paths

Students in the MSLS programme reflect the diversity of the world and as such they follow many different career paths after graduation. By combining undergraduate studies and prior work experience with a Master's degree in Strategic Leadership towards Sustainability, graduates have a truly unique set of skills and training that makes them invaluable to employers in any context.

With a solid understanding of sustainability, MSLS graduates are well positioned to return to their former employers to lead organisational change efforts related to sustainability or bring sustainability thinking in new roles either in academia, business, government or the nonprofit sector.

Visit our website to see where our graduates are working now: www.bth.se/msls

THE SETTING

About Karlskrona

The Strategic Leadership towards Sustainability Master's programme (MSLS) is hosted at Campus Gräsvik, in the city of Karlskrona, the capital of Region Blekinge in the south of Sweden. The city is situated on an archipelago and has been designated a UNESCO World Heritage Site due to its unique naval heritage.

Karlskrona abounds with cultural buildings and its beautiful natural setting makes it a tourist destination in summer, with regular ferries through the archipelago. The island setting means there is good access to beaches and bathing areas, and water sports such as sailing, kayaking and canoeing are popular. In the winter months there is some snowfall, though Karlskrona's climate is considered mild compared with more northerly parts of Sweden.

With its 60,000 inhabitants, Karlskrona is large enough to give you necessary conveniences and small enough to provide an intimate and idyllic setting for learning.



Photo: Kevin Cameron

Student life

With the many undergraduate and graduate programmes being completed by students from all over the world, BTH's student life abounds with diversity.

There are opportunities to participate in a range of activities from joining sports and social clubs, to DJ-ing at the student bar, to organising events such as international dinners and other creative activities.

MSLS students are heavily involved in campus activities and the professional experiences and entrepreneurial spirit of the MSLS class are put to good use promoting sustainability and cultural exchange within the student body. MSLS students are also active in the community and are connected to local supporters of sustainable development. Each year, the class hosts the Karlskrona Dialogues, a public outreach activity bringing some of the world's most recognised experts in the sustainability field to Karlskrona.

Within the MSLS community itself, what goes on during classes is only part of the overall experience. The diversity of skills and experiences in each class allows for a variety of self-organised activities and ensures you'll leave Karlskrona with a unique experience and many fond memories. The close friendships formed during the year translate into a strong international alumni network of sustainability colleagues after graduation.

Tomomi Takada
(Japan)

Class of 2005

"A year in BTH was a really exciting experience for me, not only learning about sustainability from new perspectives, but also working and exchanging ideas with classmates from all over the world from various backgrounds."

GUIDING PHILOSOPHY

The world we live in today is increasingly complex. Our tendency to view and explain it in a linear, static way is insufficient to deal with today's challenges, and a new 'whole-systems' way of planning and problem-solving is necessary. With this in mind, the MSLS programme is founded on the basic premise that to achieve a sustainable society within such a complex system (society in the biosphere), we must first understand the basic functioning of the system and define the principles for sustaining our way of life.

From these principles, one can "backcast" to the present and begin to take action as part of a clearly focused strategic plan. Put simply, our chances of achieving what we want in the future are enhanced if we have a clear definition of where we are going and have a systematic and structured approach to planning and decision-making.

A structured approach is one thing; being able to share it is another. Therefore, the MSLS programme revolves around two integrated themes:

- **strategic sustainable development (SSD)** – a science-based, strategic approach for planning towards sustainability; and
- **organisational learning and leadership** – practicing leadership to effectively create change towards sustainability.

The synergy that results from this combination generates uniquely-skilled graduates with fluency in both sustainability and leadership. Through this combination, graduates are able to re-enter the professional arena with an energetic and inspired approach to societal and organisational change.



Programme Goals

The aim of this programme is for each Master's graduate to:

- Have a thorough understanding of an intellectually strict, widely applicable framework for strategic sustainable development;
- Be able to apply the programme's two themes in a range of situations for an analysis of problems, creation of solutions, and selection and design of complimentary tools and concepts;
- Be able to demonstrate an in-depth application of the programme's two themes (as part of a group thesis); and
- To develop enhanced leadership capabilities and the ability to inform and empower through an improved awareness of organisational and personal learning as well as improved presentation, facilitation and coaching skills.

Graduates of this programme make a substantial contribution to a growing network and field of knowledge related to strategic sustainable development. Upon successful completion of the degree, a **Master of Science (One Year) in Strategic Leadership towards Sustainability** will be granted.



Photo: Richard Blume

Jonas Lagneryd
(Sweden)

Class of 2007

"Thanks to the system approach, which I consider to be the backbone of the programme, planning for sustainability becomes tangible. It helps me navigate more easily both in my professional and private life."

LEARNING PROCESSES

The MSLS learning environment is designed to be an intimate and supportive space to learn about sustainability, practice leadership and build the relationships that will support our future work. A non-traditional educational setting with experiential and holistic learning methods is what the programme seeks to provide.

The delivery of the curriculum follows a spiral learning approach, beginning with an overview of core concepts and followed by progressively deeper consideration and application of the concepts later on through a self-directed learning approach. The programme is structured to provide leadership opportunities and move progressively from learning the 'rules of the game' (period 1) to 'playing the game' (periods 2, 3 and 4). This means that as the year progresses the programme is less instructor-led and more student-led where students direct their learning towards their own needs and tap the collective wisdom of the group via project work.

The last four and a half months (periods 3 and 4) are devoted primarily to a major project, where students work in small groups and use their knowledge of the SSD framework to apply it to an actual business, community or other project and produce a final thesis.

The programme involves different learning methods such as lectures, group work, case studies, individual assignments, presentations, workshops, seminars, field trips and more. There is a strong emphasis on an open and interactive environment, peer-learning, and a collegial coaching relationship between instructors and learners.

For more in-depth information about programme readings and content, refer to the list of references posted on our website. Key publications are made available or provided to students on arrival. Additional publications are available through the BTH library and its extensive associated network.

Michelle Dyer
(Canada/USA)

Class of 2006

"The understanding I gained from the MSLS program - on sustainability, leading profound change, and working in diverse groups of people - has been extremely valuable. I can't imagine working in the sustainability field without having had the experience."



CURRICULUM CONTENT

Theme 1

Strategic Sustainable Development

The Strategic Sustainable Development theme of the MSLS programme revolves around a generic framework for planning in complex systems. It is based on research published in international journals and is generically called the Framework for Strategic Sustainable Development. It is also known amongst business and political leaders as The Natural Step Framework after the organisation that was created to promote its use. Along with a network of other partner institutions, researchers at BTH are instrumental in its ongoing development, particularly in the field of sustainable product innovation.

The framework is a widely-applicable approach to sustainable development and has been applied in hundreds of organisations around the world. Businesses such as McDonald's, IKEA, Scandic Hotels, Interface, Starbucks, Nike, Hydro Polymers, Rohm and Hass, and communities such as the Swedish Eco-Municipalities, Whistler and Canmore (Canada), have used this framework to help define and adopt their sustainable development goals.

The framework has the advantages of being:

- Scientific – Basic concepts from physics, natural, and social sciences provide a foundation.
- Holistic – Recognizing the highly complex interdependency of the natural world and society, the framework is based on systems thinking to support decision making.
- Structured – There is a clear distinction between: (1) the functioning and boundaries of the system; (2) the principled, scientific view of sustainability; (3) guidelines for strategic decision-making; (4) actions; and (5) various support methods and tools.
- Strategic – A clear, principled view of a future sustainable society guides decisions using a 'future success looking backwards' (i.e. 'backcasting') approach.
- Creativity-Enabling – By 'backcasting' from basic constraints of a future sustainable society, a vast range of possibilities become possible within these broad but concrete constraints.
- Based on Scientific Consensus – The principled, scientific definition of sustainability has been derived and refined through a scientific consensus process.
- Tested by Application – Theories and concepts are continually applied and tested by academics and practitioners in concert with business and society.

Within the MSLS programme, this framework is introduced to build a shared and comprehensive understanding of sustainability. Participants will become familiar with the framework and its application, which will allow them to select and use the many tools and concepts of sustainable development in a clear, structured and effective manner.



Renaud Richard
(France)

Class of 2005

"The MSLS programme played a vital role in my ability to understand and live sustainability from a systemic and strategic perspective: I'm now far more efficient when engaging individuals and organisations from wherever they stand."



Theme 2

Organisational Learning and Leadership

Sustainable development requires unprecedented learning and leadership to change the current way we operate in society today. To this end, the organisational learning and leadership theme of the MSLS programme explores how change happens in society and how to create desired change towards sustainability.

Learning and change processes in individuals, organisations and society are examined through systems thinking approaches. This theme also covers an exploration of our personal role in creating a sustainable society. The aim is to develop skills and the capacity to understand, engage, co-learn, lead and energize change.

Leadership theories are covered to develop an understanding of what leadership towards sustainability means in terms of self awareness, leading by example on sustainability and building broad consensus-based action through relationship-building and teamwork.

An emphasis is placed on developing skills in communicating and implementing strategic sustainable development (theme 1), particularly through engaging individuals and organisations, working with multicultural stakeholders and practicing presentation, facilitation, dialogue and coaching techniques.



Karen Stroebel
(Canada)

Class of 2008

"An indescribable experience that empowered us all with tools and life-long friends. I'm still unfolding the layers of benefits this program has gifted me with!"



COURSE STRUCTURE

The nine-month programme (late August to early June) is divided into four study periods of equal length. The first two study periods are for coursework and the second two for thesis (project) work. Students take both core (mandatory) courses and electives. Electives have been designed in such a way that students can take both electives if they are willing to handle the increased workload. The overall Master's programme consists of a total of 60 ECTS credits.

Period one (September to November): all students become familiar with the Framework for Strategic Sustainable Development in one intensive course called Introduction to Strategic Leadership towards Sustainability (15 ECTS credits). From the context of this framework, students explore topics in six modules covering economics, social sustainability, governance, scientific principles for sustainability, strategic management, organisational learning, sustainable product development, and the selection and application of various tools and concepts for sustainable development. Students are also encouraged to search out and identify their own specific interest in applying the framework. This forms the basis for their project work (periods three and four).

Period two (November to January): students take one mandatory course in Strategic Management for Sustainability (7,5 ECTS credits) and one elective course in either Engineering for a Sustainable Society or Advanced Societal Leadership (7,5 ECTS credits). When choosing courses in the second period students should consider their background, topics of interest and specific thesis opportunities.

In periods three and four (January to June), all students will complete a thesis (30 ECTS credits) based on applying the framework in their chosen area of study (i.e. agriculture, energy systems, development of materials or products etc.) or organisation (i.e. company or municipality). Thesis topic selection and proposal development will be initiated during period two and will continue through periods three and four.

Fieldtrips: Throughout the academic year, two/three field trips within Sweden and/or surrounding areas will take place. The purpose is for students to learn about applications of sustainable development with individuals, groups and/or organisations. It is also a great opportunity for students to increase their networks and contacts in different fields and areas of work. Students should budget 1500 – 2500 SEK per person. Field trips are mandatory and are often co-designed by students and staff.

For more information about curriculum content and key references, please visit our website: www.bth.se/msls

Mauricio Mira
(Costa Rica)

Class of 2006

"The MSLS Programme has made me a real change agent, for which I will be forever grateful."



HOW TO JOIN US

Tuition Fees

Education is free in Sweden for all university programmes. This applies to all accepted students from all countries until the academic intake during 2011. In 2011 it is anticipated that students from outside the EU/EEA will be required to pay tuition fees.

You will need to have enough financial resources to cover your living expenses (food, transport, accommodation, etc). You also need to budget 800 SEK for course books, photocopies and other materials, and 1500-2500 SEK for field trips. Field trips are mandatory.

Admission Process

1. Familiarise yourself with the full application requirements by referring to the "Complete Application Requirements" on the next page and visit the "Admission" section at: www.bth.se/msls.
2. Start your application process by filling out an online application form and follow up with a complete submission.
3. Mail or Courier your complete application package as directed on our website.

Complete Application Requirements

Applications by all international students must meet standard entrance requirements established by the BTH International Office and Swedish authority regulations, in addition to specific requirements related to this Master's programme.

Application Deadlines

All documents must be received by Feb. 1. As the initial phase of the admission process is conducted centrally in Sweden via www.studera.nu, the MSLS programme staff are unable to assist with exceptions for late documents.

BTH aims to advise all international applicants of a decision in May, so that successful candidates can start their student visa applications as early as possible.

Swedish students should apply through www.studera.nu (Anmälningskod: BTH 70007) and follow the application procedures set down by the Swedish National Agency for Higher Education.

Swedish students are subject to the same document requirements set out here.

1. General Requirements:

- Completed online application form
 - University certificate of your Bachelor Degree from an Institution of Higher Education
 - University transcripts (course lists), i.e. subjects from each semester containing marks/grades
 - Your transcripts must be originals sent by your university or photocopies certified by a Notary Public or a representative of the Ministry of Education. Please see the www.studera.nu website for more information on requirements for how transcripts must arrive, depending on which country your degree is issued in.
 - Where English is not your native language, a certificate for specific competence in English language is required:
 - TOEFL (Test of English as a Foreign Language) with a minimum score of 550. If you have a computerbased test, the minimum score is 213.
- OR
- IELTS (International English Language Testing Service) test with a minimum score of at least 6.0 and every four modules must reach at least 5.5 each. You must have taken the Academic IELTS; the General IELTS is not accepted.

2. Specific requirements:

- An essay, maximum 2500 words, explaining your interest in the Strategic Leadership towards Sustainability Master's Programme, providing some information on your relevant personal and/or professional experience, and how this particular Master's programme might fit into your future personal and professional goals.
- Written recommendations from two individuals knowledgeable about your skills and abilities.
- Curriculum Vitae (Resumé) - maximum 2 pages, 12-font.

Please take time in advance to carefully read all specific requirements for your documents.



FACULTY AND INSTRUCTORS

Göran Broman, Ph.D., M.Sc. Professor

- Overall programme development and delivery of key lectures
- Course and student evaluation and on-going Improvements

Dr. Broman is Professor and Research Director for the Sustainability Assessments Group and the Sustainable Product & Service Innovation Theme at the School of Engineering, BTH, Karlskrona, Sweden. He is also leading a BTH-wide knowledge environment aiming at integrating sustainability, innovation, systems engineering and other disciplines at BTH to support sustainable development of society. He is a member of the Faculty Board and of the Board of Directors of BTH and he is the Programme Director of an international cross-disciplinary and cross-sector research, education and applications programme called Real Change. Parallel to his engineering education he has undertaken extensive studies in ecology, economy, resource theory, leadership and other subjects relevant to his commitment in sustainability. He has been instrumental in the development of the framework for strategic sustainable development that is central to this Master's programme, and he has integrated sustainability aspects in mechanical engineering education and research. For this pioneering work he has received, for example, The BTH Researcher of the Year Award, The Blekinge County Council Major Environmental Award and The Swedish Association of Sustainability Managers Award for Excellent Sustainability Leadership. Dr. Broman and Dr. Robèrt initiated the development of this Master's programme in 2002.

Karl-Henrik Robèrt, Ph.D., M.D. Professor

- Overall programme development and delivery of key lectures
- Course and student evaluation and on-going improvements

Dr. Robèrt is a part time Professor within the Sustainability Assessments Group at the School of Engineering, BTH, Karlskrona, Sweden and he is the chairman of the steering group of the Real Change Programme. He holds a Doctoral degree in Internal Medicine from Karolinska Institutet, Stockholm, Sweden. Until 1993 he was an Associate Professor at Karolinska Institutet, headed the Division of Clinical Hematology and Oncology at the Department of Medicine at the Huddinge Hospital, Stockholm, Sweden and was the Editor of Reviews in Oncology. In 1989 he founded The Natural Step, a nonprofit research, training and advisory organization for sustainability. Between 1995 and 2001 he was an Adjunct Professor of Physical Resource Theory at Chalmers University of Technology, Gothenburg, Sweden. In 1999 Dr. Robèrt received the Green Cross Millennium Award for International Environmental Leadership and in 2000 he received the Blue Planet Prize for having led the development of the framework for strategic sustainable development that is central to this Master's programme, in the business community also known as The Natural Step Framework. In 2005, he was named the inaugural winner of the prestigious global award The Social Responsibility Laureate Medal. Dr. Robèrt and Dr. Broman initiated the development of this Master's programme in 2002.



Freek van der Pluijm (Holland)

Class of 2008

"My year in Karlskrona has been one of deep learning, empowerment, creativity and joy. As a group we have been able to create the safe space in which meaningful transformation takes place through learning-by-doing, creating desired futures and looking beyond imaginary boundaries. I have made friendships for life and learned how to take the steps necessary to develop a more sustainable society. It was the best thing for me to do at this point in life and am very grateful for having had this opportunity."

Tamara Connell, M.SLS, B.Sc.

Programme Director and Course Lead

- Director of programme curriculum and delivery
- Course and student evaluation; strategic development of the programme
- Delivery and evaluation of the Strategic Management for Sustainability course

Tamara holds a Bachelor of Science degree in Environmental Planning and a Master's degree from the MSLS programme (2005/06). She has worked for both the private and public sector, and has a wide range of experience related to community and infrastructure planning/development, First Nation engagement in oil and gas development, waste management consulting, and climate change solutions for businesses. Her areas of interest include education for sustainable development, personal and group behavioural change, sustainable community development, and empowerment of individuals to create positive change.

Merlina Missimer, M.SLS, B.A.

Ph.D. Researcher and Course Lead

- Support, delivery and evaluation for the Introductory course
- Delivery and evaluation for the Advanced Societal Leadership course
- Research on Social Sustainability

Merlina has worked with sustainability and higher education for the last 7 years. Her experience includes working as a Campus Sustainability Coordinator and Residential Programs Assistant, as well as with non-profit groups such as Friends of the Earth and Amnesty International. She holds a Master's in Strategic Leadership towards Sustainability from BTH, and a B.A. in International Environmental Studies from Franklin & Marshall College. Merlina brings experience with group processes, decision-making and mediation as well as strong critical thinking skills to the programme.

Anthony Thompson, M.SLS, B.A.

Ph.D. Researcher and Course Lead

- Delivery and evaluation for the Engineering for a Sustainable Society course
- Research in the area of sustainability and product development

Tony is currently exploring his keen curiosity of how business, society and the environment interact from a systematic perspective by pursuing a Ph.D. at BTH. Tony holds a BA in computer science from Cornell College and a Master's in Strategic Leadership towards Sustainability from BTH. He worked with Habitat for Humanity for five years in various organizational development and capacity building roles. In 2006, he served on the board of directors of the Iowa Environmental Council. In January 2007, he participated in The Climate Project, Al Gore's follow-up effort to the documentary "An Inconvenient Truth" through which he talks to groups of people about climate change.



Brendan Moore, M.SLS, B.A.

Programme Assistant

- Support delivery, development and evaluation of the MSLS programme.
- Support delivery, development and evaluation of sustainability distance courses.

Brendan grew up in the United States and studied at the University of Florida and Blekinge Institute of Technology. Over the past five years, he has led a number of sustainability education initiatives, coordinated grassroots advocacy for renewable energy, and helped catalyze political engagement pushing for strong climate legislation in the United States. His interests include sustainable energy systems, foreign languages, and the politics of sustainability.

Zaida Barcena, M.SLS, B.A.

Programme Assistant

- Support delivery, development and evaluation of the MSLS programme.
- Support delivery, development and evaluation of sustainability distance courses.

Zaida holds a Bachelor of Business Administration from the University of the Americas in Mexico and a Master's degree from the MSLS programme. She has worked in the private sector mainly in Finance, Operations and Procurement. She is interested in Education for Sustainability to promote effective long term behaviour.

Marco Valente, M.SLS, B.A.

Programme Assistant

- Support delivery, development and evaluation of the MSLS programme.
- Support delivery, development and evaluation of sustainability distance courses.

Marco holds an advanced degree with honors in social sciences and communication from the University of Salerno in Italy, and obtained his master's degree from BTH. After graduation he has been working on corporate social responsibility with an NGO and with an energy service company. His passion and curiosity brought him in Sweden to get a broader, systems perspective on sustainability. He brings a passion for journalism, active citizenship, and a critical thinking rooted in social sciences. With these skills and passion, and interest for cultural diversity, he hopes to bring a substantial contribution in empowering new generations of leaders.

Treva Wetherell, M.SLS, B.A.

Programme Assistant

- Support delivery, development and evaluation of the MSLS programme.
- Support delivery, development and evaluation of sustainability distance courses.

Treva is a graduate of the MSLS program and holds a B.A. in International Relations and Spanish from the University of Wisconsin-Madison in the United States. Her experience includes working and volunteering in various roles in the non-profit sector, including program development and management. Her interests include group dynamics, food systems, and the role that service and leadership can play in transforming society.

Rebecca Petzel
(USA)

Class of 2009

"There is no more relevant place to study strategic sustainability than in the interdisciplinary, multicultural setting the MSLS program provides. The opportunity to work with professionals from all over the globe, across fields, finding creative new ways to effectively work together and tackle global challenges was simply invaluable."



Henrik Ny, Ph.D., M.Sc. Researcher and Sessional Instructor

- Delivery of key lectures
- Course and student evaluation

Henrik Ny is a Researcher and Sessional Instructor at Blekinge Institute of Technology. He holds a Master's degree in chemical engineering from Lund Institute of Technology, Lund, Sweden and a Master's degree in environmental management and policy from the International Institute for Industrial Environmental Economics at Lund University, Lund, Sweden. In 2009 he was awarded his Ph.D. from Blekinge Institute of Technology. He has worked with environmental issues at the Swedish chemical company Perstorp AB. This work focused on the integration of lifecycle assessment into the company environmental management system and the waste treatment and recycling efforts. His research interests include ecological economics and sustainable product development.

Tobias Larsson, Ph.D., M.Sc. Researcher and Sessional Instructor

- Delivery of key lectures

Tobias is Head of division and research responsible, Division of Functional Product Development at Luleå University of Technology (LTU), and a Guest Professor at BTH in Sustainable Product Service System (PSS) Innovation. He earned his Ph.D. at Luleå University of Technology in 2001. The core focus of research is within Product-Service Systems where he pursues the idea of merging artefact development and service engineering aspects in early stages of the development processes. Innovation, creativity, knowledge and simulation are keywords that frequently show up in the research. Tobias is one of the leading persons behind the Faste Laboratory, a VINN Excellence Centre within functional product development. He is co-founder of the Design for Wellbeing framework (focusing technology and health combined), a joint research project together with Stanford University, USA, and Hosei University, Japan. He devotes his teaching efforts to product development related courses, both via LTU lectures and via lectures at other universities and in industry on national and international level.

Sophie Hallstedt, Ph.D., M.Sc. Researcher and Sessional Instructor (also MSPI Programme Director)

- Delivery of key lectures
- Director of MSPI programme curriculum and delivery

Sophie Hallstedt is a researcher and lecturer at Blekinge Institute of Technology. She holds a Master's of Science Degree in environmental engineering from Luleå University of Technology, Luleå, Sweden, a licentiate's degree in engineering from Chalmers University of Technology, Gothenberg, Sweden, and a Ph.D. from Blekinge Institute of Technology in Karlskrona, Sweden. She has carried out environmental control and chemical inventory analysis for Swedish Steel AB and developed biological monitoring systems at Biological Monitoring Inc. in Virginia, USA. Her research interest is sustainable product development. Her other academic interests include the science of sustainability, energy systems and environmental management systems. Sophie also currently works on her post-doc with Volvo Aero.



EXPERTS

Christian Azar, Ph.D.

Technologies and policies to address Climate Change

Dr. Christian Azar is Professor of Sustainable Industrial Metabolism at the Department of Physical Resource Theory, Chalmers University of Technology, Göteborg, Sweden. He is a member of several international research groups and committees, including the Inter-governmental Panel on Climate Change (IPCC). He has also authored several papers in direct connection with the framework taught in this programme.

Göran Carstedt, Ph.D.

Leadership and Organisational Learning

Göran Carstedt is chairman for The Natural Step International and a leading member of the Society for Organisational Learning global network, dedicated to the "interdependent development of people and their institutions." He is Senior Director of The Clinton Foundation's Large Cities CLIMATE Initiative and he also works as an advisor and coach to various European, U.S., and Asian organisations and serves as chairman and board member for several corporations. He is a former Chief Executive with both IKEA and Volvo. Dr. Carstedt has direct experience applying the framework in a business setting as President of IKEA North America.

Leif Johansson, Ph.D., M.Sc.

Sustainable Transportation

Leif Johansson is President of AB Volvo and has been Chief Executive Officer of the Volvo Group since 1997. Dr. Johansson holds a Master's Degree in Engineering and is a member of the Confederation of Swedish Enterprise and Member of the Royal Swedish Academy of Engineering Sciences. As previous CEO of Electrolux, Dr. Johansson was instrumental in using the framework to help guide the company's strategic initiatives.

Torbjörn Lahti

Sustainable Communities

Torbjörn Lahti is a social planner with more than 20 years experience in sustainable development of local communities and he is currently the Project Manager of the Sustainable Robertsfors project in northern Sweden. Between 1983 and 1989, Mr. Lahti was the Project Manager of the first eco-municipality in Sweden. He has been a teacher of sustainable development applied to municipalities for the last 10 years and lectured extensively internationally (including Estonia, Russia, Spain, Japan and the U.S.). He is co-author of the book, *The Natural Step for Communities*.

Jason Leadbitter, Ph.D. CEnv

Sustainable materials with expertise in polymers

Jason Leadbitter is the Sustainability Manager of INEOS ChlorVinyls and the former Sustainability Director at Hydro Polymers Ltd., where he applied the TNS framework. Dr. Leadbitter has also recently published leading research on sustainability and PVC based on his work.

Pong Leung, M.Sc., B.Comm

Sustainability Consultant

Pong is the former Programme Manager of the MSLS Programme. He has led real-world sustainability initiatives for over 10 years with a number of private, public and non-profit organisations. Pong played a leading role in the successful development of The Natural Step (TNS) in Canada, where he worked with many organisations to realise a strategic sustainability perspective within their policies and operations. Pong is involved in a wide range of community and corporate sustainability initiatives, such as designing change process road maps, analyzing organizational readiness for sustainability change, providing advice on how to embed sustainability into governance systems, facilitating multi-stakeholder workshops, delivering educational workshops and so on. Pong holds a Master's of Science degree in Environmental Policy and Management from the International Institute for Industrial Environmental Economics at Lund University, and a Bachelor of Commerce degree from the University of Alberta in Canada.

Jonas Oldmark

Fundamentals of the TNS Framework in annual planning and decision making

Jonas Oldmark is Head of Real Change Partnerships at The Natural Step International and serves as an advisor and coach to organisations from several sectors including the food industry, construction, energy and utilities. Mr. Oldmark has been instrumental in developing methods to integrate the Framework with the annual business planning of organisations.

David Waldron, M.Sc., B.A.Sc.

Leadership and Community Sustainability

David Waldron is the former Programme Manager for the MSLS programme. He is a professional civil engineer from British Columbia, Canada with 20 years experience in municipal engineering, environmental management, strategic planning and community change processes. Mr. Waldron also holds a Master's Degree in Resource and Environmental Management from Simon Fraser University, Canada. In the renowned resort community of Whistler, he prepared the Environmental Master Plan and co-ordinated a community sustainability initiative involving public, private and nongovernmental sectors, based on The Natural Step Framework. This national award-winning partnership has served as a Canadian "best practices" model that continues to inspire change across the country.

Anders Wijkman

International human rights and geo-political affairs

Mr. Wijkman has been a member of the European Parliament since 1999. Previously, he has been a Member of the Swedish Parliament, a long time Secretary General of the Swedish Red Cross and Secretary General of the Swedish Society for Nature Conservation. More recently, he has held posts as the Assistant Secretary of the UN and policy director of UNDP. He has written several books on disaster prevention, sustainable development and HIV/AIDS. Mr. Wijkman is a member of the Royal Swedish Academy of Sciences, the World Academy of Art and Sciences, the International Factor 10 Club and the Club of Rome.

Bob Willard, Ph.D.

The Business Case and Organisational Learning

Bob is a leading expert on the business value of corporate sustainability strategies and has given hundreds of keynote presentations to corporate, government, university, and NGO audiences. He has authored two books on the business justification for sustainability strategies, *The Sustainability Advantage* and *The Next Sustainability Wave*, and created a DVD of his presentation, *The Business Case for Sustainability*. His latest book, *The Sustainability Champion's Guidebook*, and its DVD, outlines how internal leaders can transform their companies to sustainable enterprises. He worked 34 years with IBM Canada, is on the faculty of the Sustainable Enterprise Academy, and serves on the advisory board of The Natural Step Canada. He has a Ph.D. in sustainability from the University of Toronto. See www.sustainabilityadvantage.com for more information about him and his resources for sustainability champions.

Regina Rowland, Ph.D.

Sustainovation Strategist

Dr. Rowland partners with organizations to help them integrate strategic sustainability thinking into their daily operations and for the development of sustainable products and services. In addition to her consulting practice, Dr. Rowland holds teaching and research assignments at multiple institutions in Europe and the United States, in the areas of organizational learning, social innovation, and innovation of sustainable products and services. She is currently completing her Post-Doc in Strategic Management, Innovation and Technology at Ecole de Management de Grenoble.

Lena Johansson, MBA

Fundamentals of the TNS Framework in annual planning and decision making

Lena Johansson has worked as a senior advisor on a variety of projects e.g. strategic planning towards sustainability, management systems (ISO 14001 & TQM), The Balanced Scorecard and sustainability reporting. Lena has worked in many industries, including food & agriculture, financial services, construction and energy. Ms. Johansson has been instrumental in developing methods to integrate the TNS Framework with management systems.



*Are you the next
sustainability leader?*



Yes, I am!

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