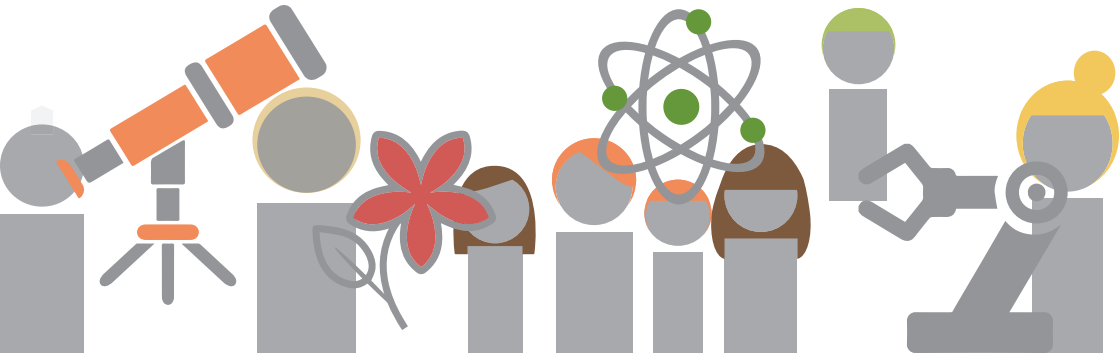
SDU

Citizen Science

Talent Programme




crowd sourcing
lead-user innovation
diversity
open innovation
business and social sciences
inclusive
knowledge brokering
'people management' skills
volunteer
public private partnerships
social impact
science communication
societal engagement
healthcare
natural sciences
honours degree
health sciences
scientific relevance
open data
patient public innovation
engaging research participants
patient engagement
citizen science
global development goals
engaging citizens
talent programme
community outreach
change
inclusive societies
participatory media content creation
co-creation
humanities
media communication
ownership and engagement
design thinking
oppose the post-factual society
collaboration
participatory design
community development
sustainability
cross-disciplinary teamwork
international exposure
collective power
open source
innovation
engineering
multi-stakeholder innovation
citizenship
sustainable development
societal relevance of innovations.

Citizen Science

Make science matter in society – and harness the collective power of citizens!

Citizen Science engages citizens in research – as data collectors, co-analysts and even policy co-developers. It is a fast-growing field within the full range of scientific university disciplines, and it includes methods like Community-Based Research, Public Patient Involvement, Participatory Design. Citizen Science is a response to the increasing pressure on universities to open up their research processes and to explain benefits to citizens. Citizen Science can also be seen to counter the movements towards a post-factual society.

SDU Citizen Science Network gathers research frontrunners across all five faculties who work with participatory research. The network will support the talent programme with cases that can benefit from citizen engamenent. You get to work with some of the most progressive SDU researchers and you get support from professors who understand the principles and techniques of citizen science.

In this talent programme you will experience innovative ways of engaging citizens and get a chance to collaborate with students across the natural sciences, health, engineering, business and humanities. You learn what it takes to make your science matter in society and to become a talented, visionary, high achiever!

The talent programme features

- Co-creation
- Sustainability
- International exposure
- Social impact

Programme Structure

Independent Spring and Fall courses: Earn an Honours Degree on top of your Bachelor or Master

20 ECTS
Programme (Spring)

Master Classes
The 15 late-afternoon master classes will be taught by two professors in tandem to establish a lively discussion across disciplines. Locations will rotate to provide a sense of each research environment.

Hands-on Workshops
Full-day workshops support the development of your Citizen Science project. The workshops demonstrate methods, media and platforms. International guest lecturers will help you develop your toolbox of Citizen Science methods.

Small-group coaching
In small-group coaching sessions you will establish your individual learning goals, learn from other students' unique professional backgrounds, and get feed-forward on your career.

International Conference
The programme will sponsor your participation at the European Citizen Science Association (ECSA) conference in Italy in May 2020. This is an opportunity to build your own international network.

Summer School
In August, we will complete the Citizen Science projects in a 4-day summer school to analyse results, publish insights and prepare the final presentations.

Scientific Co-Publication
To complete the 20 ECTS component, each group will hand in an essay in the format of a conference paper and present results in an open citizen event.

+10 ECTS
Programme (Fall)

The +10 ECTS programme is dedicated to students who want to pursue further research about citizen science. It includes:

Master Classes
Six Master classes on Citizen Science research methods – and how Citizen Science may relate to your own field of study.

Individual Research
Find your own field of interest and conduct your individual research with supervision from one of the professors.

Study Tour
Join us on a trip to London in November to visit international Citizen Science environments.

Honours Degree
A talent programme is extra-curricular, meaning that the credit you earn is beyond your regular studies.
To earn an Honours Degree, Bachelor students must complete 30 ECTS and Master students 20 ECTS on top of their ordinary programme. Students must also finish their regular studies on time. In any event you will get a diploma added to your graduation certificate.

Live Citizen Science projects

Experience how to develop a real Citizen Science project of your own.

In small teams you will get to develop a citizen science project within Natural Sciences, Engineering, Health, Humanities, or Social Sciences, supervised by a competent science advisor.
The programme professors will contribute with their innovative citizen science methods in media, design, journalism, sports, data handling etc. Through the project you get to challenge the scientists to involve citizens, to try new ways of gathering and analyzing data, and even to engage citizens in deciding which research directions are useful.
Read about the different projects here: www.sdu.dk/cstalent/cases

Why join the talent programme?

Citizen science methods expand your job options.

Natural Sciences
Citizen Science is a growing trend in research, as it helps ensure relevance and acceptability of sciences. On the practical side, the programme helps you develop techniques for engaging research participants and handling data. Kickstart your researcher career with the talent programme!

Engineering
The principles of Citizen Science apply equally to the development of new products and technologies for people. The programme helps you master cross-disciplinary teamwork and equips you with techniques to ensure societal relevance of innovations.

Health Sciences
Citizen Science techniques are directly transferable to patient engagement in health treatment. The programme will expand your communication skills and strengthen your ability to work in cross-disciplinary teams.

Business and Social Sciences
The tools you learn in the talent programme will help you apply design thinking and manage open innovation, crowd sourcing, lead-user innovation, multi-stakeholder innovation. Strengthen your grasp on quantitative market studies and boost your 'people management' skills!

Humanities
Societal engagement is very much a responsibility of the Humanities. If you study media communication, here's a chance to oppose the trend towards a post-factual society. As a designer, Citizen Science will expand your competencies in user-centred and participatory design. Carve out a role for yourself in safeguarding societal relevance of research and technology development!

The talent programme addresses the Global Development Goal #17 Partnerships. The individual Citizen Science projects will even respond to other goals too.

Unique learning environment

A truely cross-disciplinary learning experience.

The programme is organized by five SDU departments:

Design and Communication (IDK)

Study of Culture (IFK)

Sports Science Clinical Biomechanics (IOB)

Centre of Journalism (CFJ)

University Library (SDUB)

The programme features group project collaboration, close professor supervision, international guest researchers, international networking, coaching.

You will learn to

- Co-create and manage citizen science projects
- Employ digital media to engage citizens
- Critically argue for inclusion of citizens in your field
- Support the sustainability agenda through citizen engagement
- Unfold your own profession in a cross-disciplinary team
- Contribute to citizen science research.

[**media content creation**]
Media audiences and digital learning.

[**community development**]
Creating ownership and engagement.

[**participatory design**]
Collaborative process of designing.

[**science communication**]
Explaining complex matters.

[**knowledge brokering**]
Crossing discipline boundaries.

[**open data**]
research data management.

Who can join?

We admit 25 top grade Master students and final-year Bachelor students from any SDU programme.

Acceptance Criteria

A high academic level in your regular study programme.

Scientific comprehension – research flair in your field of study.

Urge to experiment – daring to try new ways, to observe and reflect.

Initiative – a drive to take initiative and responsibility.

Communicative skills – ability to express complex ideas orally, visually, in text etc.

Social engagement – an ability to establish networks inside and outside university.

How to apply

Please send your application including:

- a one-page motivation letter,
- your CV,
- your grade records.

Deadline for applications:
January 6th, 2020

Send to: Christina Fyhn Nielsen cfni@sdu.dk

Selected applicants will be invited for interviews January 15 and 17 in Odense, and January 21 in Kolding.

Responsible faculty

A group of experienced, proactive professors.

Jacob Buur
Professor of User-Centered Design, IDK. Jacob's expertise is in participatory design. Also, his colleagues will teach do-it-yourself of science instruments and bio-hacking in the SDU Maker Space in Kolding. *Programme lead*.

Kirsten Drotner
Professor of Media Studies, IKV. Kirsten contributes with research on media audiences, digital learning, participatory content creation and on the societal implications for democratization.

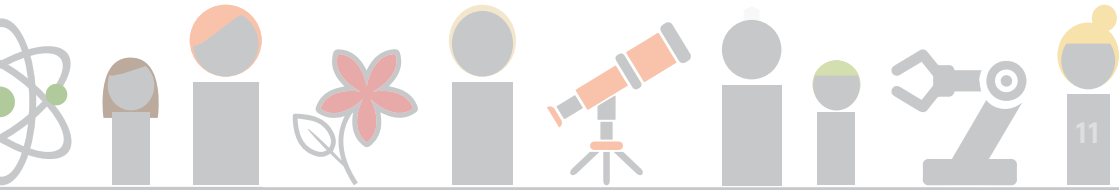
Jens Troelsen
Professor and Head of research unit Active Living, IOB. Jens brings a systematic approach to community development in sports, creating ownership and commitment, organizing and evaluating engagement in local areas and social networks.

Peter Bro
Professor of Journalism and Head of Centre, CFJ. Peter brings his expertise on the role of mass communication in influencing public perceptions of research.

Thomas Kaarsted
Deputy Director, SDUB, and co-chair of the CS Network. Thomas brings his competence in knowledge brokering & data handling and is internationally well-connected on Open Data, Open Science and Research Data Management.
Programme sub-lead.

Henry Larsen
Associate Professor of Participatory Innovation, IER. Henry employs organisational theatre to understand the conflicts, power relations and political negotiations that enable innovation.
Small-group coach.

Also, you will meet science advisors form across all SDU Faculties, as well as internationally acclaimed researchers.



For more information

www.sdu.dk/cstalent