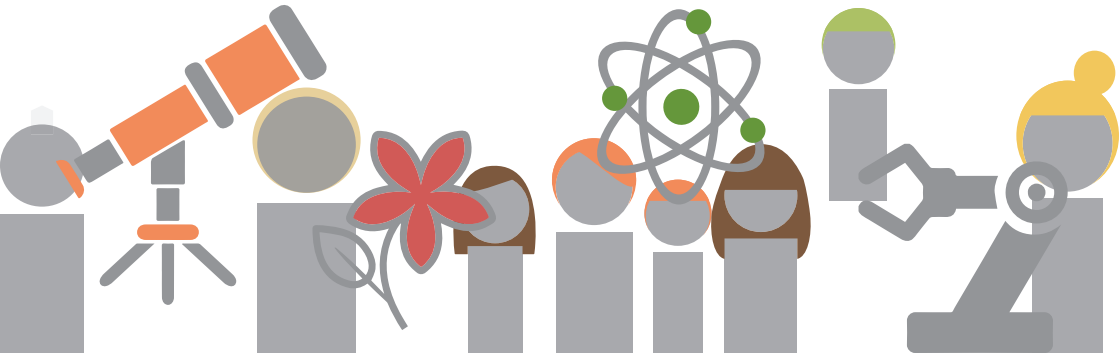
SDU

# Citizen Science
## Talent Programme

**Deadline**
**3rd January**
**2022**




handling data
business and social sciences
community development
ownership and engagement
societal relevance of innovations.
open innovation
'people management' skills
multi-stakeholder partnerships
change
sustainability
supports
engaging citizens
research
participatory design
inclusive
with distinction
oppose the post-factual society
citizenship
society
societal engagement
global
media communication
co-creation
open source
crowd sourcing
inclusive societies
global development goals
participatory media content creation
social impact
natural sciences
design thinking
Citizen Science
Talent Programme
engaging research participants
public patient involvement
development
time
challenges
open data
participants
international exposure
innovation
patient engagement
complex
engineering
science communication
humanities
ideas
diversity
resources
community
user-lead innovation
knowledge
collective power
opportunity
health sciences
create
local
tools
collaboration
sustainable development
knowledge brokering
cross-disciplinary teamwork
results
multi-stakeholder innovation
community outreach
healthcare
scientific relevance
volunteer

# **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 Knowledge Center** gathers research frontrunners across all five faculties who work with participatory research. The knowledge center will support the talent programme with cases that can benefit from citizen engagemenent. 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 a Distinction with your Masters Degree

## **20 ECTS**
Programme (Spring)

**Master classes**
The 10 late-afternoon master classes are taught by professors across the faculties to establish a lively discussion between disciplines. Locations will rotate to provide a sense of each research environment.

**Hands-on Workshops**
Two 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.

**Conference**
The programme will sponsor your participation at the **Engaging Citizen Science Conference** in Aarhus in April 2022. It is an opportunity to build your own international network.

**Study trip**
In May, we visit the Citizen Science Center in Zürich and the Citizen Cyberlab at CERN in Geneva to explore, listen and learn from the best.

**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 field of study.

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

**Degree with Distinction**
A talent programme is extra-curricular, meaning that the credit you earn is beyond your regular studies.

To earn the Distinction, Master students must complete 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 a chance 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/en/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, crowdsourcing, 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-centered and participatory design. Carve out a role for yourself in safeguarding the societal relevance of research and technology development!

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


Methods
Results

# **Unique** learning environment

A truly cross-disciplinary learning experience.

## You will learn to

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

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

[**participatory design**]
A collaborative process of designing.

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

[**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 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 the 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 3rd 2022

**Send to:** Gitte Alberen, gial@sdu.dk

Selected applicants will be invited for interviews January 10 and 11 in Odense, and January 12 in Kolding.

# **Responsible** faculty

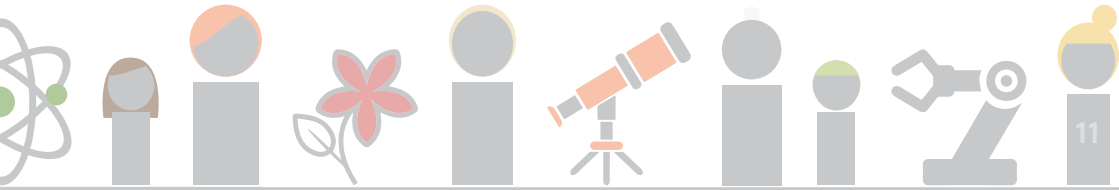
Experienced, proactive experts in their fields.

**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*.

**Thomas Kaarsted**
Deputy Director, SDUB, and co-chair of the SDU Citizen Science 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*.

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



For more information

sdu.dk/cstalent