UNIVERSITETET I OSLO

Jobbnorge ID: 269054
Deadline: 10/24/2024
Website: http://www.uio.no/
Scope: Fulltime
Duration: Temporary

Engineer in development and fabrication of Organ-on-chip systems for oncology applications (1-year)

About the position

The "Hybrid Technology Hub" Centre of Excellence (HTH) at the University of Oslo and Oslo University Hospital, Norway, is currently inviting applications for an initially 1-year engineer position.

The interdisciplinary Centre headed by Prof. Stefan Krauss is located at the Institute of Basic Medical Sciences at the University of Oslo. The overall objective of the Hybrid Technology Hub is to develop innovative “organ-on-a-chip" formats for experimental drug testing https://www.med.uio.no/hth/english/https://www.med.uio.no/hth/english/

The person hired will take part in the development and fabrication of Organ-on-chip (OoC) systems in a recently granted industrial collaboration and tech transfer project with Oncosyne AS. The project is based on the proprietary rOoC (recirculating organ-on-a-chip) format that has been developed at HTH. After initial training, the engineer will assist in project management, communicate with our industrial partner, participate in hands-on training with the devices, and maintain thorough records.

Work tasks

- Assist with fabrication using available equipment at the HTH.
- Support in upscaling of OoC fabrication using injection-molding.
- Help develop standardized fabrication and handling guidelines for rOoCs.
- Be involved in computational modeling and design of microfluidic OoC systems.
- Perform characterization and quality control of rOoC systems.
- Train collaboration partners on handling rOoCs.
- Organization rOoC fabrication and shipment process.
- Assist in the fabrication and characterization of support equipment, such as shakers and online monitoring tools.

All work tasks will be performed under close supervision and guidance by the responsible senior researcher.

The position can be assigned other tasks relevant to the Centre’s research.

Qualification requirements

- The position requires a relevant degree, preferably within engineering, minimum on a bachelor level.
- Minimum one year work experience in industrial or academic settings.
- Wet lab skills like basic cell culture techniques and working with microfluidic systems.
- Good English skills, written and oral.
- Experience in one or more of the following areas will be positively evaluated:

- Polymer microfabrication technology, especially injection molding, 3D printing, and thermal bonding

- 3D and 2D design programs such as Autodesk Inventor, Solidworks, or AutoCAD

- Computational fluidic modeling

- Laser processing and other structuring technologies

- Working in an industrial environment

Personal skills

- Structured and independent
- Highly organized
- Strong communication skills
- Ability to work in a multidisciplinary and international environment
- Willingness to travel to collaboration partners within Europe

We offer

- Salary NOK 516 800 - 584 500 per annum depending on qualifications in a position as, engineer position code 1085
- A positive and stimulating working environment
- Opportunities for academic growth and potential involvement in startup formation based on the rOoC technology
- Competitive conditions

How to apply

The application must include:

- cover letter statement of motivation
- CV (summarizing education, positions and academic work)
- copies of educational certificates (academic transcripts only)
- evt. documentation of english proficiency
- list of reference persons: 2-3 references (name, relation to candidate, e-mail and phone number)

The application with attachments must be delivered in our recruiting system.

Formal regulations

Interviews with the best qualified candidates will be arranged.

According to the Norwegian Freedom of Information Act (Offentleglova) information about the applicant may be included in the public applicant list, also in cases where the applicant has requested non-disclosure.

Inclusion and diversity are a strength. The University of Oslo has a personnel policy objective of achieving a balanced gender composition.Furthermore, we want employees with diverse professional expertise, life experience and perspectives.

If there are qualified applicants with disabilities, employment gaps or immigrant background, we will invite at least one applicant from each of these categories to an interview.

Contact information

Administrative coordinator Petter Angell Olsen, e-mail: peteraol@medisin.uio.no

About the University of Oslo

The University of Oslo is Norway’s oldest and highest ranked educational and research institution, with 28 000 students and 7000 employees. With its broad range of academic disciplines and internationally recognised research communities, UiO is an important contributor to society.

The Institute of Basic Medical Sciences overall objective is to promote basic medical knowledge in order to understand normal processes, provide insight into mechanisms that cause illness, and promote good health. The Institute is responsible for teaching in basic medical sciences for the programmes of professional study in medicine and the Master's programme in clinical nutrition. The Institute has more than 300 employees and is located in Domus Medica.

Additional information

Place of service:

Sognsvannsveien 9, Domus Medica 0316 Oslo (Oslo Municipality)