Six Open Positions at Center for Electromicrobiology (CEM)

The newly established Center of Excellence, Center for Electromicrobiology (CEM), Aarhus University, Denmark, seeks up to 6 outstanding postdocs, PhD students, and technicians with a keen interest and strong skills for one of the following areas of research:

- molecular and structural biology of electrically-conductive proteins
- functional genomics and microbial physiology of electron-conducting microbes
- interactions and processes in electric microbial communities

The specific positions will be posted at www.cem.au.dk and www.au.dk with application deadlines in January 2018.

All positions are based at the Faculty of Science and Technology, Aarhus University, in an interdisciplinary setting including the Section for Microbiology, Department of Bioscience, the Interdisciplinary Nanoscience Center, and The Department of Molecular Biology and Genetics. These departments offer an international working environment with state-of-the-art facilities for molecular and ecological microbiology, next generation sequencing, electrochemistry, and electron microscopy.

We expect the applicants to:

- Have a strong background in microbial ecology, molecular biology, biochemistry or related fields, with an outstanding curriculum
- Be highly dedicated, self-motivated and ambitious
- Have excellent collaborative skills and an interest to work in an interdisciplinary center.

The Center for Electromicrobiology, CEM, at Aarhus University is a newly established Center of Excellence supported by the Danish National Research Foundation. The aim of CEM is to establish a novel view on electron flow between living cells by addressing three overarching research questions: how are the electrons transported, how are they exploited by the cells, and how do they shape ecosystems? The centimeter-long cable bacteria with internal electron conductors connecting thousands of cells will have the main role in CEM’s endeavors: their large-scale separation of biological anode and cathode processes allows detailed experimental studies of the associated conductors and metabolisms, and their apparent electron exchange with many other bacteria will provide exceptional insights into electric ecosystems. The center applies a combination of microbiological, biogeochemical, molecular biological and electrochemical approaches, including microfluidics, modeling, next generation sequencing, Cryo-EM, and computational biology.
The positions

2 Postdoc Positions at the Center for Electromicrobiology (CEM)

2 two-year postdoctoral positions in Electromicrobiology are available from 15 February 2018, or as soon as possible thereafter. One postdoc will work primarily with the structural and functional characterization of proteins presumably involved in long-distance electron conductance, while the other will primarily investigate cable bacteria metabolism and associations with other organisms.

Application deadline: 15 January 2018.

3 PhD Positions at the Center for Electromicrobiology (CEM)

3 three-year PhD positions in Electromicrobiology are available from 1 May 2018. The PhD projects will address the molecular and structural biology of electrically-conductive proteins, functional genomics and microbial physiology of electron-conducting microbes, and/or the microbial biogeochemistry and interactions in electric microbial communities, depending on the qualifications and research interests of the successful candidates.

Contact a member of the core group of CEM before 1 January 2018

Formal application deadline: 1 February 2018.

Position as Laboratory Technician at CEM

A five-year position as laboratory technician is available from 1 February 2018, or as soon as possible thereafter. The successful candidate has experience in microbiological, molecular biological, and/or chemical-analytical techniques, good communication skills in English, and wants to be part of a fast-developing, interdisciplinary research field. Experience in microfluidics is an asset.

**Further information**
For further information on the positions, please contact a member of the core group of Center for Electromicrobiology:

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Department</th>
<th>Email</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lars Peter Nielsen</td>
<td>Professor, Head of CEM</td>
<td>Department of Bioscience, Section for Microbiology</td>
<td><a href="mailto:lpn@bios.au.dk">lpn@bios.au.dk</a></td>
<td>+4560202654</td>
</tr>
<tr>
<td>Andreas Schramm</td>
<td>Professor</td>
<td>Department of Bioscience, Section for Microbiology</td>
<td><a href="mailto:andreas.schramm@bios.au.dk">andreas.schramm@bios.au.dk</a></td>
<td>+4560202659.</td>
</tr>
<tr>
<td>Elena Ferapontova</td>
<td>Associate Professor</td>
<td>Interdisciplinary Nanoscience Center, iNano – Chemistry.</td>
<td>elena.ferapontova@i nano.au.dk</td>
<td>+4587156703</td>
</tr>
<tr>
<td>Filip Meysman</td>
<td>Professor</td>
<td>Antwerp University and Technical University of Delft.</td>
<td><a href="mailto:filip.meysman@uantwerpen.be">filip.meysman@uantwerpen.be</a></td>
<td>+32 (0) 494 06 43 27</td>
</tr>
<tr>
<td>Nils Risgaard-Petersen</td>
<td>Associate Professor</td>
<td>Department of Bioscience, Section for Microbiology</td>
<td><a href="mailto:nils.risgaard-petersen@au.dk">nils.risgaard-petersen@au.dk</a></td>
<td>+4529656325</td>
</tr>
<tr>
<td>Thomas Boesen</td>
<td>Cryo-EM Facility Manager</td>
<td>Dept. Molecular Biology and Genetics &amp; iNano.</td>
<td><a href="mailto:thb@mbg.au.dk">thb@mbg.au.dk</a></td>
<td>+4587155435</td>
</tr>
</tbody>
</table>