

Pesticides are intensively applied in agriculture resulting in leaching of these toxics to the groundwater. Strong scientific evidence exists for the negative impact of pesticides on health, including fertility problems, birth defects and neurological and development problems. The main reason pesticides slip through the water supply to our drinking water is that there is no efficient way to control the pesticide level in the waterworks and wells.

A solution to this problem is being developed by IPM, which is a young startup company founded in 2014 as a spinoff from the Department of Micro- and Nanotechnology at DTU. IPM's main interest is to develop environmental sensors using patentable technology. IPM is currently focusing on developing and testing a commercial product that can provide continuous measurements of the pesticide level in water production facilities.

We are searching for an ambitious researcher who can join the team and focus on detecting selected pesticides using electrochemical techniques. Furthermore, the candidate can look forward to be challenged in different areas as this job position is a mixture of experimental work, data analysis and interpretation of obtained results. A certain amount of student supervision and authoring of scientific work is to be expected. The work will involve interacting with international partners to present and discuss the results.

This position is a part of an EU project that IPM is currently engaged in. The project is funded by the Eurostars program and aims at developing a fully functional prototype for water quality control. The project is currently running under a strict deadline with milestone deliverables. The candidate will focus on detecting selected pesticides using electrochemical techniques.

Responsibilities and tasks

The successful candidate will be hired by IPM but located fulltime at our partner facility DTU Nanotech. All the experiments will be conducted at DTU Nanotech, which will offer the candidate engagement in a dynamic and international environment.

Qualifications

The successful candidate is a PhD graduate or early Post Doc researcher with a background in analytical chemistry or electrochemistry. The ideal candidate has to be self-driven and strongly research minded.

- Prior experience in electrochemical sensing is needed.
- Experience and the combination of knowledge in chemistry and materials engineering is required.
- Ability to work in an interdisciplinary and international environment.
- Ability and flexibility to work in a team, and being able to work independently.
- Excellent writing and communication skills.

We offer

We offer an interesting and challenging job in an international environment focusing on research and innovation, which contribute to enhancing the economy and improving societal welfare for the general public. We strive for academic excellence, collegial respect and freedom tempered by a high level of responsibility. The position is offered for 12 months. Salary will be approximated to a public university standard.

Further information

Further information may be obtained from Jafar Safaa Noori at Phone Number: +45 32165555, email: jasnoo@intpm.dk You can read more about the work of the group at DTU Nanotech, NaBIS Group: <http://www.nanotech.dtu.dk/Research-mega/Forskningsgrupper/NaBIS>

Application procedure

Please submit your application no later than **30th of April, 2017**. Applications must be submitted as **one PDF file** containing all materials to be given consideration. To apply, please send your application to info@intpm.dk. **All the material should be in English** and it must include:

- Application (cover letter)
- CV
- Diploma (PhD)
- List of publications
- Recommendation letter

Applications and enclosures received after the deadline will not be considered.

All interested candidates irrespective of age, gender, disability, race, religion or ethnic background are encouraged to apply.