

The EMAT (<https://www.uantwerpen.be/en/rg/emat/>) and Vision Lab (<http://visielab.uantwerpen.be>) research groups at the University of Antwerp (Belgium) are recruiting a **postdoctoral researcher** to join a research project on atomic resolution electron tomography. This project is partially connected to an ERC research grant (<http://ematweb.uantwerpen.be/colouratoms/index.html>) and strategic funding from iMinds/imec.

You will be expected to perform the following **tasks**:

- Develop different algorithms and software packages to align and reconstruction tilt series acquired by HAADF-STEM, STEM-EDX or STEM-EELS
- Interpret the reconstructions to solve materials science problems in the field of nanophysics
- Disseminate results at international conferences and in high IF peer reviewed journals.
- Effectively share your knowledge with other (internal and external) team members.
- Supervise student projects.

Your profile:

- PhD in Physics
- Experience on scientific programming is required
- Experience on electron tomography and/or computation imaging is preferred.
- Excellent experimental, computational and organizational skills.
- A good command of the English language is required with excellent writing and communication skills.
- A proven track record of achievements (talks, papers, projects,...).

We offer:

- An exciting project in which we will aim to go beyond the state-of-the-art;
- A stimulating, high tech, and multidisciplinary research environment;
- A laboratory equipped with state of the art instrumentation, including 2 aberration corrected TEM instruments;
- The ability to participate in international workshops and conferences;
- A competitive salary, suiting the complexity of the research

Project terms:

Enrolment will start as soon as possible. The candidate will be appointed for an initial period of one year and can be prolonged depending on performance.

Information and application:

Additional information about the vacancy can be obtained from Dr. L. Covaci, Lucian.Covaci@uantwerpen.be, University of Antwerp, Groenenborgerlaan 171, B-2020 Antwerp, Belgium.

Interested applicants should send their Curriculum Vitae, the names of two professional referees, a summary of their PhD thesis and a cover letter stating their motivation to Dr. L. Covaci by the 15th of August. Please use the reference keyword "EMATPD201703" in your email subject.