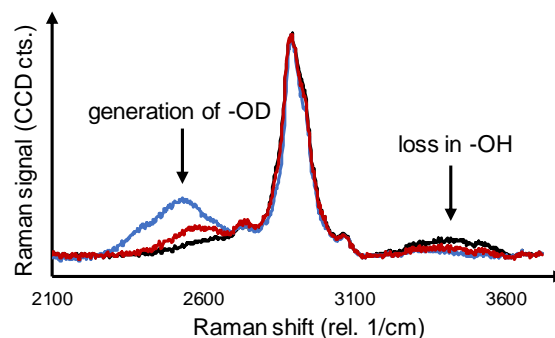
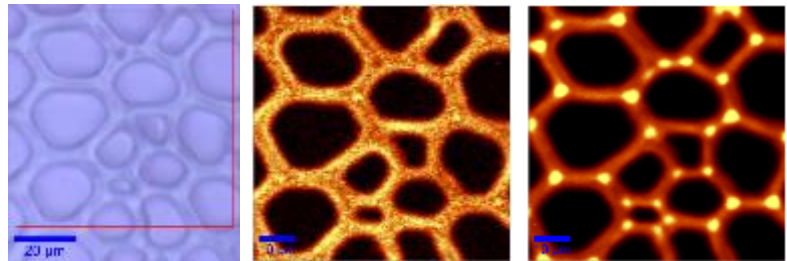
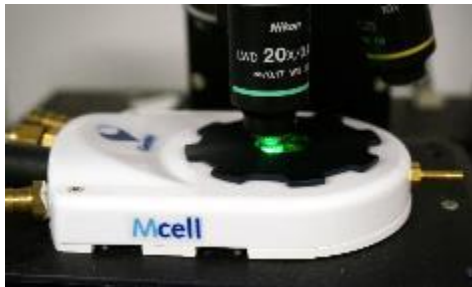


The Wood Material Science research group at the Department of Bioproducts and Biosystems is looking for a motivated

Postdoctoral Researcher with strong knowledge of water vapour sorption analysis in top-level research

Job description

The candidate will be working in fundamental research on moisture behavior of wood and/or cellulose using advanced application of Raman and FTIR spectroscopy, SAXS, DVS etc. The research should result in 1-2 high-level scientific publications/year. The position is available immediately.



The Wood Material Science research group

(http://bio2.aalto.fi/en/research_groups/wood_material_science_and_technology/) is mainly focusing on different wood modification techniques as well as on fundamental research topics such as water vapour sorption of biomaterials, especially sorption kinetics and changes in ultrastructure. We are continuously co-operating with industry and other top universities.

We have excellent facilities at Aalto University, School of Chemical Engineering (<http://www.bioeconomyinfra.fi/>) and in Nanomicroscopy center (<http://nmc.aalto.fi/en/>).

Requirements

The eligible candidate should have:

- PhD in suitable field, such as material science, chemistry or applied physics
- Experience in high level water vapour sorption analysis
- Be highly motivated
- Good written and oral communication skills in English
- Experience in carrying out independent research and working in a team environment
- Experience of writing **high level scientific publications**

Skills, knowledge and abilities in the following areas are highly desirable:

- Experience in spectroscopical analyses, such as IR and Raman spectroscopies
- Good understanding of wood structure and chemistry
- Experience in x-ray scattering techniques (SAXS)
- Experience in raising competitive funding

Employment

The position will be initially filled for 1 year, with a possible extension up to 2 years. Salary is determined according to the salary system of Aalto University and depends on the candidate's experience and qualifications.

For more information

For additional information, please contact Prof. Lauri Rautkari (lauri.rautkari@aalto.fi)

How to apply

Please apply online through the link (<http://www.aalto.fi/en/about/careers/jobs/view/1717/>) and include the following attachments:

- Application letter
- Curriculum Vitae
- List of publications
- Research interest description
- Names and contact information for references

Deadline for applications is February 28, 2018 but we will start reviewing candidates immediately. Applications will be considered until the position is filled.

Aalto University reserves the right for justified reasons to leave the position open, to extend the application period and to consider candidates who have not submitted applications during the application period.

Living up to our values

As a community of high ethics, we want to assure the highest international standard in research, education and teaching. We expect all our community members to respect Aalto values and follow the ethical principles of fair play and integrity in all our activities and the behaviour that we expect from each other. Aalto University Code of Conduct is applicable to all Aalto community members and it clarifies the values that guide us.

Aalto University is a community of bold thinkers where science and art meet technology and business. We are committed to identifying and solving grand societal challenges and building an innovative future. Aalto University has six schools with nearly 11 000 students and nearly 400 professors. Our campuses are located in Espoo and Helsinki, Finland.