

Materials Scientist/Engineer

Cellugy is a biotech startup located in Aarhus, Denmark. We are harnessing the power of biofabrication to produce an advanced bio-cellulose material, EcoFLEXY, through a disruptive biotechnological process, partnering with packaging and chemical companies to enable circularity in the end-of-life as an alternative to conventional packaging materials. We are a growing and energetic organization seeking for a Materials Engineer who shares our vision to expand our team. We promise an exciting and dynamic journey with Cellugy. To learn more, visit us at www.cellugy.com.

About the position

Cellugy is looking for a materials scientist or engineer to develop new nanocellulose-based formulations to meet a wide range of product performance requirements for applications in packaging materials. The position is full-time starting April 1st, 2021, for an initial duration of 2 years and the possibility of continuing working in subsequent projects. The position is based in Copenhagen and the candidate must be available to travel internationally to support project implementation and collaborate with external partners for product manufacturing objectives. This is a high-potential position following the sustainability trends of the packaging industry and a chance to be in the forefront of the development of the materials of the future.

Key responsibilities

The engineer will be responsible for determining and optimizing synthetic process parameters for the development of the desired nanocellulose formulations. He/she will collaborate with partners in the determination of key material performance characterization studies and the improvement of a wet coating process. In addition, the person will be responsible for writing material specifications, tests procedures, and standard operating procedures, and determine root cause analysis for issues that arise during product and process development.

About the candidate

We are looking for candidates with an M.S. or B.S. degree in Chemistry, Material science, or Chemical Engineer with at least 2 years of experience in Material/Chemical industries and/or nanocellulose material formulation and characterization. He/she must be able to lead a project from lab to pilot scale, and work collaboratively with colleagues in a start-up environment.

We expect the following qualifications:

- « Sound knowledge and understanding of organic and polymer chemistry.
- « Hands-on experience in the development of new materials and their characterization techniques, including viscosity, rheology, spectroscopy (FTIR, NMR, DLS), and thermal analysis (DSC, TGA, DMA).
- « Proven expertise in the development of cellulose-based coating formulations for paper, paperboard, or other cellulosic materials.
- « Ability to work backwards from product requirements to property specifications to material formulation, process optimization and material selection based on sound understanding of structure - property - processing - performance relations.

We value the following capabilities:

- « History developing coatings, preferably for paper-based materials.
- « Previous experience with water-based suspensions/dispersions and/or the development of new materials for packaging applications.
- « Knowledge of electro-coating, painting, spray, and/or inkjet dispensing systems.

What we have to offer

At Cellugy, we believe in working collaboratively for the greater good. We are passionate about creating innovative solutions for one of the most pressing challenges of the 21st century: plastic pollution. We pride ourselves in being a team with diverse backgrounds and origins, where we learn by supporting each other in a casual environment that promotes proactive growth, transparency, and respect. For more information, reach out to Deby Fapyane at deby.fapyane@cellugy.com.

If you have the experience, skills and knowledge we are seeking, we would love to hear from you!
Click [here](#) to apply!

About the recruitment process: applications will be received until February 1st, 2021. Applications will be reviewed on an ongoing basis and short-listed based on qualifications. The selected candidates will be called for an initial interview maximum 2 weeks after the application is received. The final candidates selected after the first interview round will be called for a second interview, which may include, but not be limited to, a presentation and informal conversations with team members. The final decision should be expected by the beginning of March 2021.