



# Materials Engineer

Job description

## Type of employment

Part-time / full-time

## Location

London

## Company

Did you know that more than 18 billion RFID tags are made for single-use annually and typically end up in landfill after a short life cycle? PulpaTronics develops fully recyclable chipless and metal-free RFID tags that are also cheaper and simpler to manufacture. While PulpaTronics is only one year old, we have already been part of three incubator programmes, won two grants and numerous competitions, such as the Dezeen, IDEA, IET and Red Dot awards. We are looking for applicants to join our founding team of two who share our passion for sustainability, have a startup “hustle” mentality, and are eager to make real change in our society.

## Summary

We are looking to grow our R&D team with a Materials Engineer joining us as a sustainable material specialist. The main responsibility of this role is to manage and lead our organic substrate material-related development. Additionally, the Materials Engineer will work closely with our CTO to optimise the overall performance of our technology and support the industrial scaling-up and commercialisation of our paper-based products. This position has the potential to grow into Head of Materials and oversee the development of our product lines. The Materials Engineer reports directly to our CTO and indirectly to our CEO as well.

## Key responsibilities

1. Develop the substrate material component of our technology based on market requirements through primary and secondary research
2. Responsible for designing, building, testing and evaluating prototypes for release to product development
3. Conduct rigorous scientific measurements using material characterisation equipment for evaluating the performance of various substrate materials
4. Generate performance summaries and report findings in design review session
5. Support developing and designing project timelines and grant applications

6. Communicate and collaborate with scientific advisors, scaling-up, IP and commercial experts
7. Contribute to developing intellectual property protection strategy

### **Qualifications**

1. Masters degree in Materials Science and Engineering, Chemical Engineering or similar, relevant PhD is a bonus
2. Experience working with plant-based materials, ideally paper, is important
3. Preferably two or more years of relevant industry experience focusing on renewable or organic materials
4. Demonstrated ability using characterisation equipment, such as XRD, SEM, FIB, Raman spectroscopy or similar, and interpreting results
5. Strong interest in sustainable solutions and recyclable materials is key
6. Experience in using Matlab, R, Python or other programming languages in a plus
7. Team player with good communication skills, able to explain information to technical and non-technical audiences
8. Self-motivated, with a passion for the job, and able to follow tasks through to completion without direct supervision
9. Experience working in a fast-paced and challenging environment and collaborate successfully in a multidisciplinary team to achieve specific objectives

### **Compensation & benefits**

1. Opportunity to take full ownership and lead product roadmap and vision as well as a significant part of the R&D development of the technology
2. Milestones tailored to personal development goals with plenty of support and training
3. Access to lab and fully-equipped workstation, including computer-aided manufacturing tools
4. 20 days of annual leave on top of the 8 bank holidays
5. Hybrid work
6. Competitive salary and potential equity compensation
7. Home office set-up stipend
8. Flexible working hours

### **How to apply?**

For those interested, please fill out this [application form](#) by June 16, 2024, and upload your CV and cover letter. If you have any other questions or queries, please reach out to [jobs@pulpatronics.com](mailto:jobs@pulpatronics.com).