Job Position: Front-end developer at TOffeeAM ltd.

TOffeeAM is an engineering company that specialises in producing design software for industrial applications. TOffeeAM's goal is to empower engineers to fully exploit the advantages and flexibilities of additive manufacturing (AM). For engineers working today, transitioning to the new manufacturing paradigm introduced by AM is challenging, as the complexity of designs which can be manufactured with AM far exceeds the complexity of current engineering designs.

TOffeeAM's cloud-based service, TOffee, addresses this problem. TOffee uses a combination of artificial intelligence, numerical simulation, and sophisticated mathematical optimization to generate optimal designs for a range of engineering components. These includes heat exchangers, valves, and structural components, among many others. TOffee's designs, while complex beyond the human imagination, can nevertheless be manufactured using AM, and can provide a step-change in the efficiency and reliability of a wide range of engineering components.

The position:

As a front-end software engineer at TOffeeAM you will be responsible for designing and developing the UX and UI of our generative design software for additive manufacturing applications.

- This position requires an excellent front-end developer who can design and develop an engaging and efficient user experience.
- The person who fills this role will have the chance to strongly influence and build our interface from the ground up.
- In the process of developing our UX, you will make our highly technical software as accessible to as many engineers as possible. This will include writing and revising user documentation as well as providing support and training to customers.
- At TOffeeAM we are generally language agnostic. We currently use C++ and Python, React.js and Git. If you can convince us that another language or framework is best for the job at hand then we are all ears!

The ideal candidate will:

- Have 2+ years of experience with front-end development.
- Be entitled to work in UK.
- Have experience working with Javascript (ES6+), CSS and React or other web framework
- Have experience working with web applications powered by REST API and GraphQL
- Have experience with cloud computing services, especially AWS.
- Be able to multi-task and juggle many competing priorities.
- Be comfortable communicating clearly and collaborating within a small team to implement new features and resolve existing issues. Be willing to take and give constructive feedback and criticism.
- Have a master's or bachelor's degree in computer science, engineering, mathematics, or a related field.

Other experience we are looking for:

Obviously, we do not expect you to have experience in all the following fields, but the best candidates will have exposure to 1-2 of them.

- Modern machine learning/artificial intelligence techniques.
- Modern engineering design and analysis tools, especially CAD software, computational fluid dynamics, and finite element analysis.
- Additive manufacturing methods and constraints.
- Design and optimization of lattice structures.

The salary would be competitive. We are already accepting applications for a potential start of employment in June 2021. If you are willing to join the team, please contact us at: m.pietropaoli@toffeeam.co.uk