Computational Design Specialist

tp bennett

Job Title: **Computational Design Specialist**

Departments: **COMPUTE (Design Computation)**

Location: **London**

Job Purpose:

We are seeking a talented and motivated Computational Design Specialist to join our innovative COMPUTE team. The ideal candidate will be responsible for developing custom computational tools and scripts to enhance the efficiency and creativity of our design processes. In addition to that, you will be responsible for building the client side of our custom applications. You will play a pivotal role in creating and maintaining custom Grasshopper scripts, supporting complex modelling and fabrication procedures in our projects through your skills in Rhinoceros, and developing the front-end side of our in-house applications.

Key responsibilities and accountabilities:

- Develop and maintain custom GH scripts to optimise architectural design and project work.
- Utilise object-oriented programming languages to create bespoke code that integrates seamlessly with existing GH components and plugins.
- Work closely with design teams to understand project requirements and provide computational design solutions that align with project goals.
- Use advanced techniques in Rhino for modelling, rendering, and fabrication tasks, ensuring high-quality outcomes.
- Provide technical support and training to team members in the use of computational design tools and methodologies.
- Participate in the documentation and presentation of processes and outcomes related to computational design and emergent technologies.
- Develop and maintain custom scripts and documentation for the front-end implementation of our in-house applications.
- Stay up to date on emerging technologies and industry trends, applying them in daily tasks and long-term strategies

Skills and Capabilities:

- Bachelor's or master's degree in architecture and/or engineering, computer science, or a related field.
- At least 2-3 years of professional experience in developing and implementing custom code and scripts within an architectural practice.
- Strong knowledge of Rhinoceros/Grasshopper - including Rhino Compute.
- Strong knowledge of object-oriented programming with Python and C#.
- Strong knowledge of interoperability procedures with BIM systems and workflows.
- Knowledge of front-end development in C# using WPF.
- Knowledge of web technologies such as HTML, CSS, and JavaScript - including .NET frameworks such as ASP.NET and Blazor - is beneficial but not essential.
- Familiarity with IDE platforms such as Visual Studio and Visual Studio Code.
- A willingness to learn new skills, technologies, and methodologies.
- Strong analytical and problem-solving skills.
- Excellent communication and collaboration skills.

If you are interested in applying for the role, please send your cv to careers@tpbennett.com.

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