Internship description

IBOIS is a laboratory focused on timber construction and digital fabrication tools. The internship will be focused on the development of architectural projects, 5-axis CNC fabrication and Atelier Weinand studio teaching:

1) Construction of a mechanical model. A model 1/200 showing the montage process and working as a stretched membrane structure. Also, the montage should be highlighted in that model.
2) The elaboration of all construction drawings: wooden structure, floor and wall structures, membrane details, lift, stairs, ramps, and handrails; precise development of walking paths, pond details restaurant and gathering issues etc.
3) CNC tool-path generation and control for heavy raw timber elements using 5-Axis CNC machine.
4) The applicant will use of Rhino and Grasshopper applications to generate the G-Code using the following tool: https://github.com/ibois-epfl/Raccoon

We are looking for strong motivated applicants willing to learn new programming skills and to step out of their comfort zone to contribute to the on-going research.

The internship will be funded by EPFL.

For more info about the research topic visit: https://www.epfl.ch/labs/ibois/

Applicant’s profile

- According to EPFL rules the applicant must be a student or finished studies not later than 6 months, candidates that do not meet this criteria will not be considered as viable applicants.
- Great graphics skills in 2D and 3D architectural modelling and drawings.
- Creative and practical problem-solving mindset.
- Highly experienced in Rhino3D and Grasshopper.
- Programming knowledge is preferred but not necessary in C/C++, C# or Python.
- Previous experience in teaching is a plus, but not necessary.
- Carpentry skills or prior experience with timber fabrication is a plus too.
- Language: fluent in English.

Planning

The internship will last for 12 months and can start from August 15 2022 or September 2022.

Interested applicants can send their CV/Portfolio to petras.vestartas@epfl.ch