

## R&D ENGINEER (2D TO 3D)

**Cognitive Design Systems** (CDS) is a tech company based in the center of Toulouse, France, the core of the aerospace industry's innovation and talent. Our company is a multicultural organization made of talented engineers brought together by a common mission, to develop the best automated CAD design solutions.

We are looking for a highly motivated and experienced R&D Engineer to join our growing team, the ideal candidate would have an existing experience in 3D, Image processing, or Mathematics applied to research project.

*At CDS, we believe that creativity and ingenuity are essential to evolve beyond process constraints in bringing designs to life.*

### Roles & Responsibilities

2D to 3D: Working on a challenging R&D project to convert 2D drawing into parametric 3D models. This project is in collaboration with a PhD Student doing a thesis on the matter.

- Programming Languages: **Python, C++**

Frameworks and Tools:

- Experience with machine learning projects
- Mathematical programming (comfortable with NumPy and matrix calculations)
- Git, GitHub, Docker, Django (is a plus)
- Experience with Agile methodologies

### Responsibilities:

- Develop innovative 3D algorithms
- Participate in cutting-edge AI R&D projects, including work with GCN and unsupervised learning
- Package and refactor code for easy integration
- Work in a fast-paced environment

### Skills & Qualifications

- Min 3+ years minimum experience
- Experience developing geometric 3D or image processing algorithms
- Experience in CAD or CG/video games is required (3D)
- Previous experience on R&D project, working as part of a team
- Ability to be versatile and work on multiple projects simultaneously
- Thriving at solving problem and finding the impossible solution