



## R&D MACHINE LEARNING ENGINEER

Together with a small team, you'll be developing learning algorithms that automatically detect and classify various architectural details of buildings (such as walls, stairs, window styles, story heights, furniture, etc.) given a pure geometric representation of such buildings in terms of solids. Therefore, you will also need to develop geometric algorithms to calculate the geometric solid features you need to train your models. By doing this, you will be part of a larger and international team that aims to develop an intuitive and very user-friendly architectural application (BIM) on top of our own CAD drawing application BricsCAD.

### What do we expect ?

- Master or PhD in Mathematics, Computer Science, Statistics, Engineering, Physics or other sciences (or you can prove you are at this level in some other way)
- Strong Mathematical Insight, especially in Data/Statistical Analysis and Geometry in 3D
- Familiarity with general Algorithms, Data Structures and Machine Learning algorithms
- Experience with Object Oriented Programming (e.g. C++, Java, C#, ...)
- Experience with Data Analysis/Scientific Programming tools (e.g. Python/NumPy, R, Matlab, ...)
- Experience or knowledge of the following topics is not required but any of them is considered a plus: other fields in Artificial Intelligence, Object Oriented Design, Computer Aided Design (CAD), Architecture, Engineering, 3D sketching skills, Computational Geometry, Optimization, High Performance and Parallel computing
- Ability to coordinate your work with team members and to communicate openly on looming problems
- Ability to realistically plan your own work and make reliable promises to your team members
- English: full professional proficiency
- Professional experience is valued but not required if you can show us some relevant or interesting personal/student work

Interested?

Contact [tjerk.gauderis@bricsys.com](mailto:tjerk.gauderis@bricsys.com) (English or Dutch)

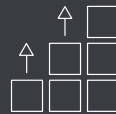
# BRICSYS

Bricsys® creates .dwg engineering design software with friendly licensing and industry leading support at a fair price. We go the extra mile.

[www.bricsys.com](http://www.bricsys.com)



Flexible working hours



Carreer opportunities



The right tools



Good vibe

## What do we offer ?

- A full-time or 4/5 job in Ghent (UCO tower)
- Flexible hours and sufficient vacation (young parents friendly)
- Competitive remuneration with extras (pension fund, meal vouchers, hospitalization & car insurance)
- A no-nonsense work floor with a flat hierarchy and direct access to management
- Autonomy in planning and designing your own work (guidance and collaboration possibilities are available)
- Interesting mix of team members to discuss designs and problems
- Encouragement to show initiative, learn, grow and develop your own ideas
- Parties, pizza Fridays and other (optional) fun activities

