

Profession spotlight: pre-designer

Main duties

- ◆ Analyse functional specifications
- ◆ Propose innovative technical solutions
- ◆ Carry out feasibility studies (costs, materials, processes)
- ◆ 3D modelling of initial concepts using CAD software
- ◆ Work with the design, R&D and methods teams
- ◆ Participate in project reviews and initial technical choices

Skills needed

- ◆ Proficiency in CAD software
- ◆ Technical creativity and a flair for innovation
- ◆ Knowledge of industrial processes (machining, injection, assembly, etc.)
- ◆ Functional analysis and problem-solving skills
- ◆ Collaborative work and rigorous documentation

Studies needed

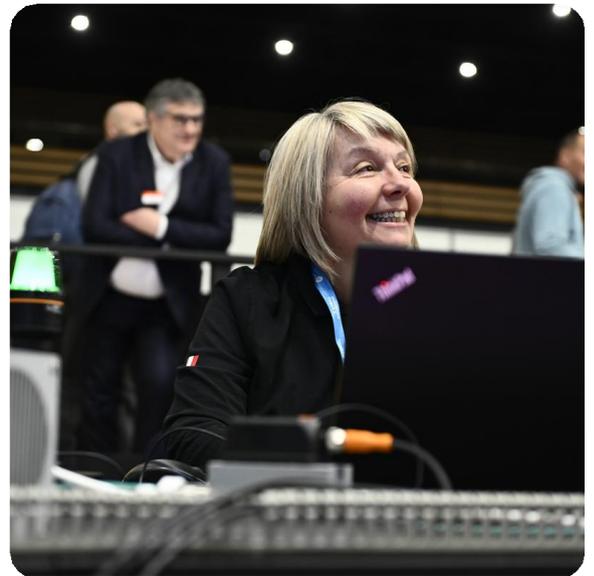
- ◆ Bac +2 to Bac +5 (2 to 5 years post-secondary study) in mechanics, industrial design or product design:
- ◆ BTS CPI (Industrial Product Design) BUT GMP (Mechanical and Production Engineering)
- ◆ Engineering degree in design / innovation / mechatronics
- ◆ Masters specialising in industrial design or technical innovation

Where do they work?

In the design offices of major industrial groups, design agencies, technology start-ups or R&D departments in all sectors (automotive, aeronautics, medical, household appliances, robotics, etc.).

How much do they earn?*

- ◆ Beginner: between €2200 and €2800 gross per month
- ◆ Experienced: from €3,000 to €4,500 gross per month, depending on the project, the complexity of the products and the industrial sector.



Career progression?

Pre-designers can go on to become R&D project managers, product innovation experts, systems architects or design office managers.

🔑 It's a job that transforms an idea into a technical reality, laying the foundations for an

**These figures are indicative and may vary according to experience, sector and company size.*