Type d'offre : Offre en entreprise

Date de publication : 03.03.26

Formel AI

Applied Formal Methods Engineer

Informations générales

Durée du contrat : CDI

Niveau d'expérience : 3+ years of experience

Contact :

careers@formel.ai

Date de prise de poste : mer 01/04/2026 - 12:00

Formel AI :

At [Formel AI](#), we combine the creativity of generative AI with the reliability of mathematical formal methods. By leveraging the verification capabilities of formal methods, such as the Lean 4, we pioneer a new generation of Large Language Models (LLMs) that are reliable, transparent, and cost-efficient. We're honored to have received the [2nd spot of the Innovation Prize from École normale supérieure](#) in Nov 2025.

Formel AI is founded by [Sylvain Combettes](#) (CEO) and [Antoine Mazarguil](#) (CTO), who met during their PhDs at ENS Paris-Saclay. We closed an [oversubscribed angel round](#) in Feb 2026, backed by 30+ top-tier business angels including the founders of Datadog, Dataiku, Nabla, and Artefact. Our scientific advisory board includes Full Professors from Ecole polytechnique, ENS Paris-Saclay, and Ecole des Ponts.

We're now onboarding our first design partners and building the team to make it happen. Come join us!

Adresse :

Formel AI
75000 Paris
France

Détail de l'offre (poste, mission, profil) :

About the role

We are looking for exceptional individuals to build the innovative bridge that will lead to the n of AI: the link between AI and formal methods. With this bridge, we are developing new LLMs completely transparent, and consume a fraction of the costs of current LLMs.

As an engineer with a strong background in formal methods, your position will be intrinsically At Formel AI, your role will be to participate in the development of new innovative methods a areas of interest.

Key responsibilities

- **Develop product features**: Build and ship production-grade features for our platform, wor backend APIs to UI prototypes using Python
- **Bridge theory and practice**: Translate cutting-edge research in formal methods and AI int acting as the reference on complex technical concepts in the team
- **Stay at the forefront of AI and formal methods**: Monitor cutting-edge research in both identifying emerging techniques and tools that could enhance our systems
- **Drive research innovation**: Actively shape the company's research roadmap, exploring ne

verification in collaboration with our scientific advisory board

What we are looking for

Essential qualities

- **Curious and scientific**: You're passionate about exploring the intersection of AI and formal
driven mindset that constantly questions and seeks to push boundaries
- **High technical skills**: You can autonomously design, implement, and deploy production-gr
formal verification with AI, from prototyping to production
- **High theoretical skills in formal methods** : You have deep expertise in formal verificatio
solving, with the ability to apply these concepts to real-world problems
- **Impact driven**: You excel at translating cutting-edge research into practical implementatio
value, always keeping real-world applicability at the forefront
- **Bridge builder**: You thrive at building interdisciplinary bridges

Background

- **Advanced degree in formal methods or related field**: PhD or Master's degree in Compu
related discipline with focus on formal verification, theorem proving, or program analysis
- **3+ years of experience**: Substantial professional or research experience applying formal i
- **Industry or academic research**: Experience in either industrial R&D labs or academic res
verification tools and techniques
- **Track record of end-to-end product development**: Proven experience taking formal me
concept through implementation to production deployment

Required skills

- **Applied formal methods expertise**: Demonstrated track record of applying formal verific
problems
- **Theorem proving experience**: Hands-on experience with at least one interactive theorem
Isabelle/HOL, Lean, or similar)
- **SMT solver knowledge**: Strong understanding of SMT solver fundamentals and their pract
- **Team-based product development**: Experience collaborating in a team environment to b

software
- **Formal software development**: Proven experience developing formally verified software
into software development workflows

Nice-to-have

- **Python proficiency**: Strong programming skills in Python for rapid prototyping and integra
- **OCaml experience**: Familiarity with OCaml or other functional programming languages
- **LLMs knowledge**: Understanding of LLMs from both theoretical and practical perspectives

Benefits

- **Financial & perks**
  - Competitive cash salary and equity (BSPCE) in a high-potential company.
  - Health insurance (Alan) for you and your family (partner and kids).
  - Daily lunch vouchers (Swile).
  - Hybrid work model with a strong emphasis on in-office collaboration (typically 3-4 days pe
team cohesion, spontaneous discussions, and deep work together.
- **What makes this role unique**:
  - **Founding team impact**: Join as one of the first employees and shape the trajectory of a
  - **Mission-driven startup**: Help solve the key pressing challenges of AI—the most transfor
era—ensuring LLMs are trustworthy, transparent, and cost-effective, with direct benefits for e
  - **Work with cutting-edge technology**: Build systems that combine LLMs with formal ver
the forefront of AI safety and reliability where breakthrough developments happen every wee
  - **World-class team**: Collaborate with a scientific advisory board from leading institutions (
Saclay, etc) and experienced business angels from top tech companies (Datadog, Dataiku, Na
  - **Strategic customers**: Work with leading companies in healthcare, enterprise software, a
domains.
  - **Flexibility of an early-stage startup**: Autonomy to define how you work and what you

Hiring process

1. Apply and submit your resume using this [Google Form](

https://docs.google.com/forms/d/e/1FAIpQLSfvLZeeEiMlhtFWlmd2lbaQ9ghPhYw3r0nSRVHZeJb

)

2. **Screening call (30 min)**: A quick chat with the CTO to align on vision and expectations.

3. **In-depth technical discussion** (home exercise followed by a **60 min** discussion)**:** great fit as potential collaborators.

4. **Technical deep-dive (60 min)**: A focus on your proficiency with the tools you will use.

5. **Founder interview (45 min)**: Final discussion on strategy, culture fit, and your long-term with the CTO and CEO.

URL de l'offre :

https://docs.google.com/forms/d/e/1FAIpQLSfvLZeeEiMlhtFWlmd2lbaQ9ghPhYw3r0nSRVHZeJb

Lien vers l'offre sur le site dataia.eu :https://da-cor-
dev.peppercube.org/node/1536