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Engineering Physics Phds (STEM)

$20-$50 per hour

Hourly contract · Remote

Posted by Mercor
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7 open positions
Closing soon

Mercor is seeking PhDs and PhD candidates in Engineering Physics, Biophysics, and Control Theory to contribute to a high-impact AI research initiative in collaboration with a leading AI lab.

This role centers on assessing and advancing the performance of cutting-edge large language models (LLMs) by leveraging your advanced domain knowledge to rigorously evaluate scientific and technical reasoning in your area of expertise.

Key Responsibilities

Application submitted

Your application for Engineering Physics Phds (STEM) was received.

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- **Evaluate** the relevance, correctness, and depth of LLM-generated responses in your specialization, which may include:
  - Dynamic systems, feedback control, and automation theory
  - Thermodynamics, solid mechanics, and fluid dynamics
  - Signal processing, circuit theory, and electromagnetics
  - Biophysical modeling and biomedical instrumentation
  - Quantum mechanics, statistical physics, and computational methods
- **Design and refine** complex technical tasks to probe the LLM's conceptual understanding, analytical reasoning, and problem-solving accuracy.
- **Deliver structured, expert-level feedback** on model performance, identifying strengths, gaps, and misconceptions.
- **Collaborate closely with AI researchers** to inform model development and suggest scientifically grounded improvements.
- **Contribute to the creation of domain-specific benchmarks** and evaluation datasets that challenge the frontier capabilities of language models.

You're a strong fit if you have:

- A PhD (or are currently a PhD candidate) in one of the following or a related field:
  - Engineering Physics
  - Biophysics
  - Electrical Engineering
  - Mechanical Engineering
  - Control Theory / Control Engineering
- Deep domain knowledge in key topics such as:
  - Control systems, robotics, and systems identification
  - Circuit analysis, signal filtering, and electromagnetics
  - Biophysical instrumentation and physiological systems modeling
  - Solid/fluid mechanics, heat transfer, and manufacturing systems
  - Quantum physics and applied computational methods
- A sharp eye for scientific and mathematical rigor, as well as an ability to critique logic and modeling assumptions.
- Excellent technical writing and the ability to communicate complex ideas clearly and concisely.

- Experience working independently and collaboratively in remote settings.

Role Details

- **Part-time** (10–20 hours/week), fully flexible commitment.
- **100% remote and asynchronous** — set your own schedule and work from anywhere.

Compensation & Legal

- **Hourly contractor role** through Mercor.
- **Highly competitive pay** based on subject-matter expertise, ranging from **$20 to $50/hour**.
- **Weekly payments** processed seamlessly via **Stripe Connect**.

We consider all qualified applicants without regard to legally protected characteristics and provide reasonable accommodations upon request.

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Share the referral link below, and **earn $250 for each successful referral** through this unique link. There's no

limit on how many people you can refer. Restrictions may apply. Learn more

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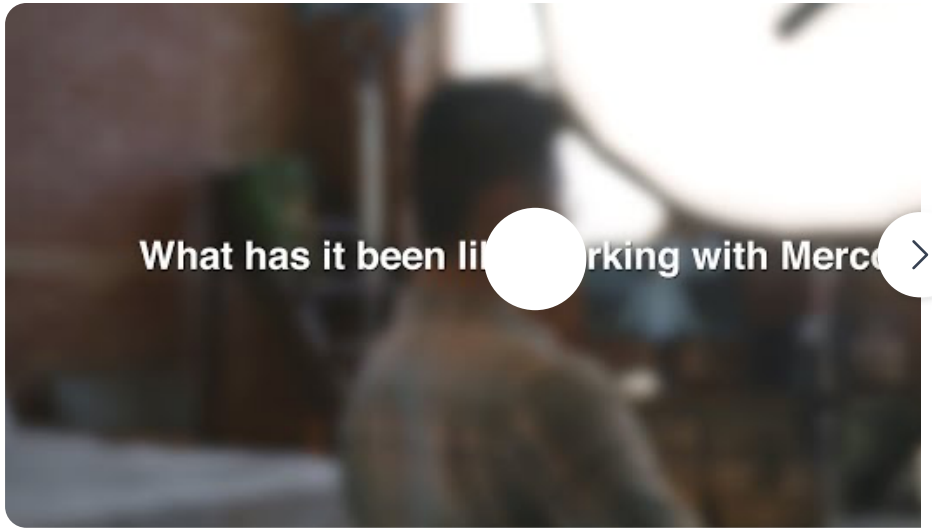
One Interview, Real Results

AI experts share how Mercor made hiring faster, fairer, and easier — with just one interview.



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