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Alzheimer's Insights AI Prize | Accelerating Alzheimer's Discovery with Agentic Intelligence Application Overview

AlzInsights AI Prize Overview

The AlzInsights AI Prize | Accelerating Alzheimer's Discovery with Agentic Intelligence, established by the Alzheimer's Disease Data Initiative (AD Data Initiative), seeks to advance progress in Alzheimer's and related dementias research through innovative Agentic AI systems capable of reasoning, learning, and acting to drive global breakthroughs.

We welcome research proposals that aim to accelerate and/or revolutionize Alzheimer's disease and related dementias (ADRD) research, enabling new insights and discoveries using agentic AI-based solutions. Applications from those with backgrounds in AI engineering, computational biomedicine, or ADRD biology are particularly encouraged.

This Application Overview document serves solely as an overview of the questions and is not considered an application submission. Applications must be submitted via the [application portal](#) in English and adhere to the specified length limits to be reviewed.

For complete details, consult the [Alzheimer's Insights AI Prize Rules and Eligibility Requirements](#). If you have questions, please reach out to info@alzheimersdata.org.

Team Information

1) Primary Mode of Contact

| # | Questions | Word Limit (max) |
|---|------------------------------------|------------------------|
| 1 | First Name (Team point-of-contact) | |
| 2 | Last Name (Team point-of-contact) | |
| 3 | Primary Email | |
| 4 | Primary Phone | Include country code |
| 5 | Team Name | 10 words |
| 6 | Number of Team Members | 1 2 3 4 5+ |

2) For each member of your team, please complete the following:

| # | Questions | Word Limit (max) |
|---|--|--|
| 1 | Full name | 100 characters |
| 2 | LinkedIn/GitHub/Profile Link (optional): | <i>Link</i> |
| 3 | Affiliation: Are you currently employed by a(n) ... organization? | Academic Government Industry Non-Profit Independent/Other/Unemployed |
| 4 | Eligibility: What is your country of residence? | Drop-down |
| 5 | Eligibility: What is the location of your “current employer”? | Drop-down |
| 6 | Eligibility: What is your nationality? | Drop-down |
| 7 | Education: What is your highest degree completed? Please provide the institution and department that awarded it and the year it was conferred. | 75 characters |
| 8 | Employment: What is the name, address, and website of your current employer? | |
| 9 | Employment: What is your current job title? | |

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| 10 | Briefly describe your current job responsibilities. | 350 characters |
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Concept Submission

Summary

| # | Questions | Word Limit (max) |
|---|--|---|
| 1 | Project title | |
| 2 | Explain your proposed project in a few sentences | 500 characters |
| 3 | Which of the following categories best describes your project? | <ol style="list-style-type: none"> 1. Multimodal data harmonization & analysis 2. Autonomous literature review & hypothesis generation 3. Synthetic data generation 4. Pattern identification 5. Disease progression modeling 6. Clinical trial design & optimization 7. Other |
| 4 | How developed is your concept? | <ol style="list-style-type: none"> 1. Prototype conceptualization 2. Prototype blueprint development 3. Prototype in development 4. Prototype Q/A review 5. Prototype release |
| 5 | By selecting "Yes," I certify: <ul style="list-style-type: none"> • I own all rights in this concept • I have the right and authority to submit this concept • I have a good faith belief that my concept can be developed into a | <ol style="list-style-type: none"> 1. Yes 2. No |

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| | <p>functional prototype within the prize timeline ending November 21, 2025</p> <ul style="list-style-type: none"> The final agent/tool will be compatible with the AD Data Initiative's platforms and ecosystem to serve the public good (e.g., AD Workbench) | |
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Assessment & Judging Criteria: Please provide details on your proposed project in the sections below. Applications will be assessed on the following six criteria:

- 1) **Feasibility & Milestones:** Assesses the realism of the workplan, including resources, data access, and regulations; outlines specific milestones with demonstrable results by CTAD 2025 & AD/PD 2026; ensures the budget aligns with milestone objectives.
- 2) **Relevance & Impact on ADRD:** Addresses a key challenge in Alzheimer's disease and related dementias (ADRD) research or translation, holding significant potential impact. Aligns with the existing AD Data Initiative and AD Workbench infrastructure.
- 3) **Acceleration & Transformation Potential:** Clearly states how time or cost is reduced compared to current approaches. Highlights potential for broader access (such as via open APIs or low-compute needs) and compatibility with existing ADRD workflows or platforms.
- 4) **Innovation & Technical Rigor of Agentic AI:** Assesses the originality of the agentic architecture, including aspects such as planning, autonomous reasoning, and adaptive learning. Evaluates the correctness and sophistication of the methods proposed, including machine learning, large language models, reinforcement learning, and multi-agent orchestration. Considers evidence of the team's understanding of technical risks, potential biases, and performance metrics.
- 5) **Ethical/Responsible AI & Data Governance:** Addresses privacy, security, bias mitigation, and transparency. Ensure GDPR/HIPAA compliance if handling personal data and commit to publishing model cards or similar documentation.
- 6) **Team Capability & Multidisciplinary Strength:** Demonstrated expertise in AI, biomedicine, productization, or open source; complementary skills across data science, neuroscience, UX, and ethics; optional support letters from institutions or industry.

| # | Questions | Word Limit (max) |
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| 1 | <p>What is your project's core hypothesis, and what data supports it?</p> <p>Outline the innovative AI or biomedicine methods you will use, explaining how these—supported by relevant evidence—advance ADRD research. Address compatibility with AD Workbench.</p> <p>Provide strong scientific evidence and peer-reviewed references to support your claims. Include your plans for validating robustness and reliability and discuss any technical risks or potential biases. Include any existing product demos.</p> | 4,000 characters |
| 2 | <p>Provide an overview of your project's key milestones, emphasizing how your approach is expected to enable researchers to accelerate their research and desired outcomes compared to traditional research workflows.</p> <p>Additionally, explain how you will utilize the AlzInsights AI Prize's core support (funding, data, etc.) to advance your project, ensuring efficient use of resources. Describe any further support you may require beyond the prize.</p> | 2,000 characters |
| 3 | <p>Summarize your team's multidisciplinary expertise, highlighting strengths in AI engineering, ADRD biology, computational biology, biomedicine, and any experience with productization or open-source communities.</p> <p>Please address any gaps in expertise and how you plan to overcome them.</p> | 3,000 characters |
| 4 | Create a Dropbox folder that includes a 1-page CV for each team member (required). | |

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|---|---|-------------------|
| | <p>Attach a viewable link to your team's Dropbox folder below.</p> <p>You may also include the following in the same folder (optional but strongly encouraged):</p> <ul style="list-style-type: none"> • Institutional or industry support letters • Concept video demos | |
| 5 | <p>By clicking 'Yes,' I confirm that I have read and agree to the <u>Alzheimer's Insights AI Prize Rules and Eligibility Requirements</u>. I certify that I meet the eligibility requirements, that my submission is original and does not infringe on any third-party rights, and that I grant AD Data Initiative the right to use my submission as described. I understand that my personal data will be handled in accordance with AD Data Initiative's privacy policy, and I waive any claims against AD Data Initiative arising from my participation in the challenge</p> | <p>Yes No</p> |