

CERTIFICATION OF MICRO ENTITY STATUS

(Gross Income Basis)

Form PTO/SB/15A

Docket Number: RUTHERFORD-016-PROV

Applicant Information

Name: Brian James Rutherford

Title of Invention: DELIBERATE ERROR TOLERANCE ARCHITECTURE (DETA) FOR ULTRA-LOW LATENCY QUANTUM-INSPIRED THREAT DETECTION WITH CONTROLLED ACCURACY TRADEOFFS

Certification of Micro Entity Status

I hereby certify that:

(1) Qualifying as Small Entity

☒ The applicant qualifies as a small entity as defined in 37 CFR 1.27, and has not assigned, granted, conveyed, or licensed (and is under no obligation to do so) any rights in the invention to an entity that does not qualify for small entity status.

(2) Application Filing Limit

☒ Neither the applicant nor the inventor nor a joint inventor has been named as the inventor or a joint inventor on more than four previously filed patent applications, excluding:

- Provisional applications under 35 U.S.C. 111(b)
- International applications for which the basic national fee under 35 U.S.C. 41(a) was not paid
- Applications resulting from prior employment where the applicant was obligated to assign rights to the employer

Number of previously filed applications (if any): 0

(3) Gross Income Limit

☒ Neither the applicant nor the inventor nor a joint inventor had a gross income (as defined by the Internal Revenue Service) in the calendar year preceding the calendar year in which this certification is filed exceeding the "Maximum Qualifying Gross Income" as adjusted by the USPTO.

Current Maximum Qualifying Gross Income (2025): \$223,740

I certify that my gross income for 2024 did not exceed this threshold.

(4) No License or Assignment

☒ The applicant has not assigned, granted, conveyed, or licensed (and is under no obligation to do so) any rights in the invention to an entity that had a gross income exceeding the "Maximum Qualifying Gross Income" in the calendar year preceding the calendar year in which this certification is filed.

Acknowledgment of Penalties

I acknowledge that:

1. **False Statements:** Any false statement in this certification is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five years, or both.
 2. **Loss of Entitlement:** The Director may require additional information to determine compliance with micro entity requirements. Failure to comply may result in loss of micro entity status.
 3. **Notification Requirement:** A notification of loss of entitlement to micro entity status must be filed in the application upon occurrence of a disqualifying event.
 4. **Fraudulent Assertion:** Fraudulent assertion of micro entity status is considered a fraud on the Office.
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Additional Certifications

- ☒ I am the applicant and inventor
- ☒ I have not assigned any rights in this invention
- ☒ This is my first patent application filing (excluding provisionals)
- ☒ I am not under any obligation to assign, grant, or convey a license to any entity that would disqualify me from micro entity status
- ☒ I have not received income exceeding the gross income limit from any entity to which I have assigned, granted, or conveyed a license or other ownership interest in the subject matter of this application
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Signature

I hereby acknowledge that any willful false statement made in this certification is punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.

Name: Brian James Rutherford

Signature: /Brian James Rutherford/

Date: [Current Date]

Title: Inventor/Applicant

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Fee Reduction

By establishing micro entity status, the following fee reductions apply:

- **Provisional Application Basic Filing Fee:**
 - Standard Fee: \$300
 - Small Entity Fee: \$150
 - **Micro Entity Fee: \$75** (75% reduction)

Total Filing Fee Due: \$75.00