

**CERTIFICATION OF MICRO ENTITY STATUS**  
**(Gross Income Basis)**

**37 CFR 1.29(a)**

**Application Number:** To Be Assigned

**Title:** Automated Vulnerability Discovery and Security Validation System for Post-Quantum Cryptographic Implementations Using GPU-Accelerated Quantum Attack Simulation

**Docket Number:** RUTHERFORD-012-PROV

**CERTIFICATION**

I hereby certify that:

**(1) Qualifying as Small Entity**

☒ The applicant qualifies as a small entity as defined in 37 CFR 1.27.

**(2) Gross Income Requirement**

☒ 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 filed under the PCT for which the basic national fee under 37 CFR 1.492(a) was not paid
- Applications resulting from prior employment where the applicant was obligated to assign rights to a previous employer

**(3) Gross Income Limitation**

☒ Neither the applicant nor the inventor nor a joint inventor, in the calendar year preceding the calendar year in which this certification is filed, had a gross income, as defined in section 61(a) of the Internal Revenue Code of 1986, exceeding the "Maximum Qualifying Gross Income" as adjusted by the USPTO (currently \$212,352 for 2024).

#### **(4) Assignment Restriction**

☒ Neither the applicant nor the inventor nor a joint inventor has assigned, granted, or conveyed, nor is under an obligation by contract or law to assign, grant, or convey, a license or other ownership interest in the application to an entity that, in the calendar year preceding the calendar year in which this certification is filed, had a gross income exceeding the "Maximum Qualifying Gross Income."

#### **APPLICANT INFORMATION**

**Name:** Brian Rutherford

**Status:** Individual Inventor

#### **DECLARATION**

I acknowledge that any willful false statement made in this certification is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

#### **SIGNATURE**

/s/ Brian Rutherford/

Brian Rutherford

Inventor/Applicant

Date: [Current Date]

#### **NOTICE**

A micro entity shall file a certification of entitlement to micro entity status in accordance with 37 CFR 1.29 in each application in which such status is established, claimed, or maintained.

**Warning:** False statements in this certification may jeopardize the validity of the application or any patent issuing thereon. The USPTO may require additional information or documentation to verify micro entity status.

**Form PTO/SB/15A (Rev 07-23)**

**Page 1 of 1**