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| OFFICE OF APPRENTICESHIP  BULLETIN | **NO.**  2024-25 |
| **DATE**  January 16, 2024 |

**TO:** NATIONAL APPRENTICESHIP SYSTEM STAKEHOLDERS

OFFICE OF APPRENTICESHIP STAFF

STATE APPRENTICESHIP AGENCIES

**FROM:** JOHN V. LADD /s/

Administrator, Office of Apprenticeship

**SUBJECT:** New Apprenticeable Occupation: Nanotechnology Engineering Technician

1. **Purpose.** To inform the staff of OA, State Apprenticeship Agencies (SAA), Registered Apprenticeship program sponsors, and other Registered Apprenticeship partners of the following new apprenticeable occupation: Nanotechnology Engineering Technician
2. **Action Requested.** OA staff should familiarize themselves with this bulletin and the attached Work Process Schedule and Related Instruction Outline, as a source for developing apprenticeship standards and/or providing technical assistance.

Nanotechnology Engineering Technician will be added to the List of Occupations Recognized as Apprenticeable by OA located on www.apprenticeship.gov. A suggested Work Process Schedule and Related Instruction Outline are attached.

1. **Summary and Background.**
   1. Summary – The occupation Nanotechnology Engineering Technician was submitted by Michael Hill, Sr. Director, Talent & Org Development, on behalf of Applied Materials Inc., were processed by Kirk Jefferson and approved by the OA Administrator on December 20, 2023.
   2. Background –

***New/Revised Occupation Background -*** Under 29 CFR section 29.4, an occupation for a RAP must meet the following criteria to be determined apprenticeable:

1. Involve skills that are customarily learned in a practical way through a structured, systematic program of on-the job supervised learning:
2. Be clearly identified and commonly recognized throughout an industry;
3. Involve the progressive attainment of manual, mechanical, or technical skills and knowledge which, in accordance with the industry standard for the occupation, would require the completion of at least 2,000 hours of on-the-job learning to attain; and
4. Require related instruction to supplement the on-the job learning.
5. **New Apprenticeable Occupation.** The occupation Nanotechnology Engineering Technician was submitted for an apprenticeability determination.

Nanotechnology Engineering Technician

O\*NET-SOC CODE: 17-3026.01

RAPIDS Code: 3066

Type of Training: Time-based, Hybrid, Competency-based

Term Length: Time-based 4000, Hybrid 4,000 – 6,000, Competency-based 2 Year

Nanotechnology Engineering Technician perform the following duties:

* + Assist nano-scientists or engineers in processing, measuring or characterizing nano-scale materials or objects according to physical or chemical properties;
* Collect or compile laboratory test data and perform appropriate analyses; and
* Monitor equipment during operation to ensure adherence to specifications for characteristics such as pressure, temperature, or flow.

1. **Inquiries.** If you have any questions, please, contact Kirk Jefferson, Apprenticeship & Training Representative at 202-693-3399.
2. **Attachments.**

