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| U.S. Department of Labor<br>Employment and Training<br>Administration<br>Office of Apprenticeship<br>Training, Employer and<br>Labor Services (OATELS)<br>Washington, D.C. 20210 | <u>Distribution:</u><br><br>A-541 Headquarters<br>A-546 All Field Tech<br>A-547 SD+RD+SAC+;<br>Lab.Com | <u>Subject:</u> New Apprenticeable<br>Occupations - Bio-Manufacturing<br>(Upstream) and (Downstream)<br><br><u>Code:</u> 200 |
| Symbols: DSNIP/CFV   | Action: Immediate  |  |

**PURPOSE:** To inform the Office of Apprenticeship Training, Employer and Labor Services (OATELS), the Bureau of Apprenticeship and Training (BAT) Staff of two new apprenticeable occupations:

Bio-Manufacturing Technician (Upstream) and (Downstream)  
 RAIS Code: 1102 CB (Upstream)  
 RAIS Code: 1103CB (Downstream)  
 O\*NET Code: 19-4021.00  
 Training Term: Minimum 2,000 hours  
 Type of Training: Competency - based

**BACKGROUND:** State Director Richard Grandmaison on behalf of the Northeast Bio-Manufacturing Collaborative initiated the apprenticeability request for these occupations.

The Bio Manufacturing Technician (Upstream) and (Downstream) occupations are the basic apprenticeship positions for performing in this new and emerging industry. The primary objectives of these occupations are:

- (1) Assist in manufacturing operations of specific products-related in cell culture/fermentation;
- (2) Operate and maintains production equipment as it relates to cell culture/fermentation;
- (3) Assist with manufacturing in production-scale protein purifications and manufacturing of final products;
- (4) Weigh, measure and check raw materials; and
- (5) Maintain computerized records to comply with regulatory requirements.

If you have any questions please contact Richard Grandmaison at (603) 225-1446 or Charles Vaughan at (202) 693-3804.

**ACTION:** All OATELS staff should review and retain a copy of this bulletin, including all attachments, as a source for developing apprenticeship standards and/or providing technical assistance.

Attachments

[Document 1](#) [Document 2](#) [Document 3](#)