The National Personal Protective Technology Laboratory (NPPTL) is a Division of the National Institute for Occupational Safety and Health (NIOSH). NPPTL prevents work-related injury, illness, and death by advancing the state of knowledge and application of personal protective technologies (PPT). NPPTL supports more than 20 million U.S. workers who rely on this equipment (e.g., respirators, clothing, gowns, gloves, eye protection and other types of protective gear) to keep them safe from on-the-job hazards.

NPPTL conducts laboratory and field research, surveillance, standards development, interventions, and conformity assessment activities. This work includes the respirator approval program and post-market evaluations to increase the compliant use of PPT and improve its usability and effectiveness. The division has the following goals:

- Develop and implement science-based national guidance for respiratory and other PPT.
- Develop new methods to test effectiveness of PPT for workers, including workers engaged in infection disease activities.
- Create guidance and tools to help employers and workers use PPT as effectively and economically as possible.
- Develop and evaluate innovative PPT designs and test methods to improve comfort, fit, and usability.

NPPTL is also responsible for evaluating and approving respirator models to ensure the expected performance level of respirators used within U.S. workplace settings. The division certifies that all respirator models used in an occupational setting meet the minimum construction, performance, and respiratory protection standards. The division also conducts site and product audits to ensure respirators continue to meet standards after approval.

NPPTL also participates in international, federal, and consensus PPT standards development activities to facilitate translating research findings and sharing staff expertise.

**Technology & Product Highlights**

- In 2017, the Respirator Approval Program completed 583 respirator approval decisions.
- In 2017, NPPTL completed 257 site and product audits, providing confidence that respirators on the market continue to be effective for their intended purposes.
- NPPTL launched a personal protective equipment information (PPE-INFO) database to provide developers, manufacturers, purchasers, and end users of PPE with a comprehensive tool to search for relevant federal standards, associated product types, target occupational groups, basic conformity assessment specifications, and accredited lab information. [www.cdc.gov/ppinfo](http://www.cdc.gov/ppinfo)
- NPPTL established guidance to identify the gowns and coveralls needed to protect users from harmful pathogens such as Ebola.

For more information

[www.cdc.gov/niosh/ppitl/contact.html](http://www.cdc.gov/niosh/ppitl/contact.html)

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OUR SAFETY AND HEALTH RESEARCH AREAS

Personal Protective Technology

Post Market Assessment

Healthcare

Emergency Response

Public Safety

Mining

Programs

Respirator Approval Program
The NIOSH NPPTL Respirator Approval Program is responsible for the testing and approval of respirators used in occupational settings. To be approved, a respirator model must meet the minimum performance requirements defined in Title 42, Part 84 of the Code of Federal Regulations (42 CFR 84). This approval process ensures a minimum level of worker protection from airborne particulates, chemicals, and vapors. The approval process includes a laboratory evaluation of the respirator model, an evaluation of the manufacturer’s quality control plan, and audit testing of certified respirators. To facilitate these activities, NPPTL uses Standard Test Procedures. www.cdc.gov/niosh/npptl/stps/respirator_testing.html

OUR STAFF
NPPTL has 73 full time positions and has offices and labs in Pittsburgh, Pennsylvania and Morgantown, West Virginia. Staff have experience in the following areas:

**Science:** Biology | Chemistry | Physiology | Ergonomics

**Engineering:** Mechanical | Electrical | Chemical | Biomedical

**Occupational Health:** Nurses | Physicians | Epidemiologists

**Health Communications:** Health Communication Specialists

**Quality Assurance:** Quality Assurance Specialists | Statisticians