Protection from chemical, thermal, and cardiovascular risks: Impact of PPE laundering and hood design

Study Participants Needed!

Join the Illinois Fire Service Institute (IFSI) and research partners as we conduct the first rigorous scientific study to quantify acute physiological disruptions and exposure to products of combustion, while firefighters conduct simulated firefighting evolutions in new and laundered PPE with traditional and particle blocking hoods.

As a participant, you will ...

• Visit the IFSI campus in Champaign for three days in Fall 2017.
• Three sessions will each consist of
  o ~1 hour of data collection pre-firefighting (blood draw, urine sample, skin wipe)
  o Simulated firefighting activities in smoke filled room lasting 15-20 minutes
  o Rest and relax on the IFSI campus for the next 6 hours. During this time you will provide blood, urine, skin wipe and breath samples.

Firefighters who participate are eligible for gift cards up to $597.

Who is eligible to participate?
In order to join this study, we are looking for firefighters who are:
• Between the ages of 18 and 55 years old
• Not a smoker or other tobacco user
• Have no known cardiovascular diseases, history of any neurological disorders or digestive complications or corn oil allergy
• Have completed an NFPA 1582 physical in the past year (or willing to complete one provided by the study) and are cleared to respond to fires
• Available during October/November 2017 and willing to clear their schedule for 3 full days.
• Wear firefighting PPE in the size ranges of 42-48 (coat) and 36-42 (pants)

We will also request that participants avoid certain grilled foods, medications (e.g. aspirin), blood donations, and second-hand smoke around the dates of the data collection.

Confidentiality Protection
Each participant will be given an ID number and all data associated with this individual will be identified only by this number. Your personal information will not be shared with IFSI instructors or anyone within your department to the extent allowed by law.

For more information, details and to sign up, contact:
Gavin Horn, Director of Research at IFSI
217.265.6563
ghorn@illinois.edu