

# UEC GOVERNMENT RELATIONS REPORT

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15 January, 2021



# MATERIAL

- Main updates

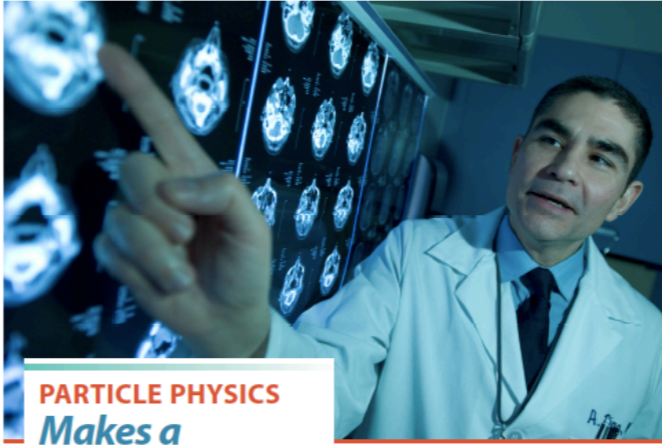
- Updated Progress&Priority document

- New QIS brochure

- Minor changes

- Makes a Difference in Your Life



Sources: [link1](#) [link2](#) [link3](#)



**PARTICLE PHYSICS**  
*Makes a Difference in Your Life*

**Global science, local impact**

Particle physics is a global discovery science central to the modern innovation ecosystem. It drives national, regional, and local progress in science and industry. And it improves your quality of life.



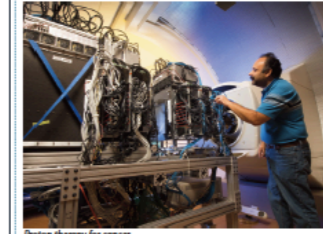
Here are just a few examples of the ways particle physics works for you:

### MEDICINE



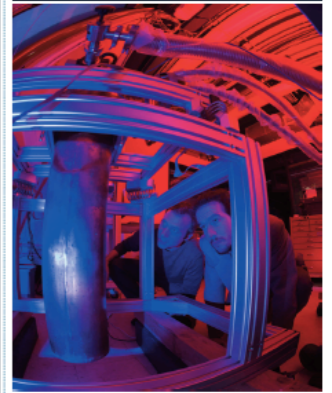
Drug development

- ▶ The pharmaceutical industry uses X-ray beams created by particle accelerators to develop more effective drugs to fight disease.
- ▶ Next-generation medical imaging devices are being powered by detectors developed for particle physics experiments.
- ▶ Radiation treatment plans for cancer are powered by software originally developed to model particle detectors, and treatments with gamma rays and protons are delivered using particle accelerator technology.



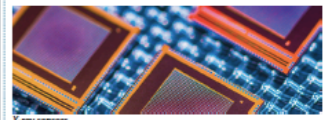
Proton therapy for cancer

### SENSORS



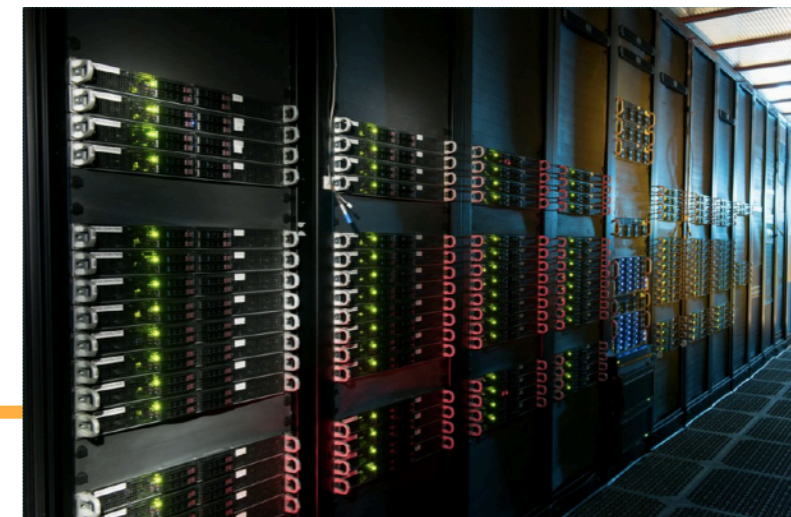
Advanced sensor development

- ▶ Custom silicon sensors developed for Large Hadron Collider experiments drive industrial applications including X-ray and medical imaging, testing of new materials, and radiation dosimetry aboard the International Space Station.
- ▶ Developments in quantum sensors provide opportunities for experiments to study previously inaccessible areas of science.
- ▶ Chemistry, biology, and materials science researchers use sensors developed for particle physics in cameras that collect signals from visible and infrared light and from X-rays.



X-ray sensors

The HEP computing power is contributing to COVID-19 research on understanding how the coronavirus proteins fold and how their movements are implicated in a variety of diseases



# PARTICIPANT LIST

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- All UEC Members are assumed will be joining — if not, please let me know.
- FSPA members — if you have not done so, please confirm with me that you will be joining. So far I got green light from: Ohana R., Anna H., Zach R., and Maria C.
- I have started to fill the remaining list trying to balance experimentalists (intensity, energy, cosmic), theorist, accelerator, etc.

# WHAT WE NEED TO DO

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## ■ **January**

- All trip attendees are on a mailing list
- All trip attendees have an access to UEC [wiki](#)
  - username: UEC (pwd was sent by email). You will then see a page that says “Log in required”. In the very top-right corner of the page is a button that says “Request account”. Please click that and fill in the form to request an account. Look out for confirmation email (also check junk folder). After the request is approved, you can create account.
- Start registering on WHIPS — link can be found from wiki
- All trip attendees are on slack — if you are not a member of channel HEPDCTrip please let me know

# WHAT WE NEED TO DO

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- **February**
  - Finalize material
  - Finalize the Ask together with all parties
  - Training, training, training! (Finish preparing and deliver)
  - Run WHIPS and give out assignments — start arranging meetings

# TRAININGS

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- Introduction to DC trip - the GovRel chair
- How to schedule your meetings - Rob Fine
- Introduction to WHIPS - Justin Vasel
- The US budget process and P5 - Michael Cooke **Should we keep both?**
- District spending and funding: how to use the information - Mike Baumer
- WHIPS on the ground - Fernanda Psihas/Justin Vasel **Not necessary this year**
- Logistics, reminders, message and how to communicate it - the GovRel chair
- How to have a successful meeting - Louise Suter, Joseph Zennamo **These can be merged or converted into two talks**
- How to hold a phone meeting - Fernanda Psihas **I am considering two training sessions in the middle and the end of February**

# HELP NEEDED!

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- We need input from both brand new and experienced trippers on trip information that is available on wiki (about material, the ask, training, advocacy process)
  - Please register on [wiki](#) and [WHIPS](#) if you are not there yet
  - Please let me know if you are not on slack channel HEPDCTrip to invite you
  - Please collect your ideas/questions/suggestions on how to improve information on this [GoogleDoc](#)
  - Training videos — it would be a great addition to have one training video about zoom meeting. Can we plan recording this?



# BACKUP

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# US PARTICLE PHYSICS MATERIAL

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- **News in the material**

**For the reference  
2020 Packet**

- Updated Progress and Priority document
- The QIS brochure