



HEP Software Foundation Google Summer of Code

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HEP Software Foundation Workshop
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Google Summer of Code



- **Google Summer of Code (GSoC):** program for **students** to spend a summer developing open-source software:
 - **12+ years**
 - **12K students** contributed from where they live
 - **30M+ lines of code written**
 - **180+ Organizations:** projects, mentors



CERN-SFT in GSoC 2016



- [CERN-SFT GSoC Webpage](#)
- **12 projects**
 - **90 student proposals**
 - **100s of student inquiries**
- **Participated since 2011**
 - **Built up a strong reputation**





Project Areas 2016

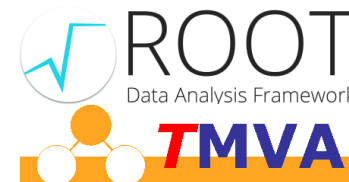


- **Simulation Software**
 - **Geant4 and GeantV**
 - **Sixtrack**
 - **Blond**
- **Data analysis tools**
 - **Interactive ROOT Graphics**
 - **Machine Learning**
- **Other utilities**

Geant 4



LHC@home
SixTrack





HSF Umbrella



This year will expand GSoC to a wider HEP software eco-system

- **Umbrella organization**



- **Other GSoC umbrellas: Apache, Linux Foundation, Python Software Foundation**





Benefits



- **More HEP involvement**
 - **Greater visibility and community benefit**
 - **More mentors and hopefully more students**
- **For individual projects**
 - **Less administrative overhead and restrictions**
 - **Benefit of SFT experience and reputation in the program**



HSF in GSoC 2017



- Interested in participating?
 - **Join Google Group**

- Additional Questions?
 - **Contact administrators:**
 - Sergei Gleyzer (UF) and Enric Tejedor (CERN)
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HSF in GSoC 2017



- **Webpage in preparation**
 - **Will appear this week under activities section of [HSF webpage](#)**
 - **Instructions for submitting project ideas**
 - **Deadline is February 3, 2017**
 - **[Mentor Guide](#)**



GSoC 2017



Timeline:

- **Jan 19 – Feb 9:** **Organizations apply**
- **Feb 27 Accepted:** **Orgs published**
- **Feb 27 – Mar 20:** **Students contact**
- **Mar 20 – April 3:** **Student applications**
- **May 1:** **Proposals announced**
- **May 1 – May 30:** **Community bonding**
- **May 30:** **GSoC begins**



Summary



- **CERN-SFT in GSoC since 2011**
 - **Will transition this year to umbrella org via HEP Software Foundation**
- **Open-source projects and mentors invited to participate by submitting project ideas prior to February 3**
 - **Google Group**