Where are we?

EDG | EGEE-I | EGEE-II | EGEE-III | EGI
---|---|---|---|---

WLCG

CERN openlab I | CERN openlab II | CERN openlab III

02 03 04 05 06 07 08 09 10 11

Opl-II - Kick-Off
Opl-III - Kick-Off
OpII - BoS 3

openlab Annual Board of Sponsors Meeting – 2009
Partnerships in 2009
Contributions

• From Partners / Contributors
  • Mix of
    • in cash for hiring young personnel
    • in kind for carrying out R&D activities
### Personnel FTE

<table>
<thead>
<tr>
<th>Personnel</th>
<th>FTE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Partner-sponsored</strong></td>
<td></td>
</tr>
<tr>
<td>Fellow</td>
<td>7.6</td>
</tr>
<tr>
<td>Staff</td>
<td>3</td>
</tr>
<tr>
<td>openlab Student</td>
<td>0.3</td>
</tr>
<tr>
<td><strong>CERN-funded</strong></td>
<td></td>
</tr>
<tr>
<td>Technical Student</td>
<td>1.6</td>
</tr>
<tr>
<td>openlab Student</td>
<td>1.6</td>
</tr>
</tbody>
</table>

**Total:** 12.5
Young Team in openlab-II Year 3

CERN openlab Staff and Fellows
12.5 FTEs

- Gyorgy Balazs  Student (CERN)
- Havard Bjerke  Fellow (Intel)
- Daniel Rodrigues Fellow (EDS)
- Xavier Gréhant  Fellow (HP)
- Milosz Hulboj  Fellow (ProCurve)
- Ryszard Jurga  Staff (ProCurve)
- Andreas Hirstius  Staff (Intel)
- Mélissa le Jeune Fellow (all partners)
- Andrzej Nowak  Fellow (EU/CERN)
- Eva Dafonte Perez  Staff (Oracle)
- José M. D. Perez  Fellow (HP)
- Anton Topurov  Fellow (Oracle)
- Dawid Wojcik  Fellow (Oracle)
- 5 Summer Students
## Young Team in openlab-III Year 1

<table>
<thead>
<tr>
<th>Personnel</th>
<th>FTE</th>
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</thead>
<tbody>
<tr>
<td><strong>Partner-sponsored</strong></td>
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</tr>
<tr>
<td>Fellow</td>
<td>9.5</td>
</tr>
<tr>
<td>Staff</td>
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</tr>
<tr>
<td>openlab Student</td>
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<tr>
<td><strong>CERN-funded</strong></td>
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<tr>
<td>Technical Student</td>
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</tr>
<tr>
<td>openlab Student</td>
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</table>

**Total FTE**: 14.3

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*openlab Annual Board of Sponsors Meeting – 2009*
Young Team in **openlab-III** Year 1

<table>
<thead>
<tr>
<th>CERN openlab Staff and Fellows</th>
<th>14.3 FTEs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ildefons M. de Abril Fellow (Siemens)</td>
<td></td>
</tr>
<tr>
<td>Zbigniew Baranowski Fellow (Oracle)</td>
<td></td>
</tr>
<tr>
<td>Axel Busch Student (CERN)</td>
<td></td>
</tr>
<tr>
<td>Carlos G. Fernandez Fellow (Oracle)</td>
<td></td>
</tr>
<tr>
<td>Daniel Rodrigues Fellow (Siemens)</td>
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<tr>
<td>Milosz Hulboj Fellow (ProCurve)</td>
<td></td>
</tr>
<tr>
<td>Ryszard Jurga Staff (ProCurve)</td>
<td></td>
</tr>
<tr>
<td>Svetozar Kapusta Fellow (Oracle)</td>
<td></td>
</tr>
<tr>
<td>Omer Khalid Fellow (Siemens)</td>
<td></td>
</tr>
<tr>
<td>Julien Leduc Fellow (Intel)</td>
<td></td>
</tr>
<tr>
<td>Melissa Le Jeune Fellow (all partners)</td>
<td></td>
</tr>
<tr>
<td>Andrzej Nowak Fellow (Intel)</td>
<td></td>
</tr>
<tr>
<td>Eva Dafonte Perez Staff (Oracle)</td>
<td></td>
</tr>
<tr>
<td>José M. D. Perez Fellow (EDS)</td>
<td></td>
</tr>
<tr>
<td>Filippo Tilaro Fellow (Siemens)</td>
<td></td>
</tr>
<tr>
<td><strong>openlab Summer Students</strong></td>
<td></td>
</tr>
</tbody>
</table>
Contributions

- From Partners

- From CERN
  - Technical environment
  - Technical manpower
  - Technical supervision
  - Management resources
  - Communication resources
CERN manpower contribution to openlab-III Year 1

<table>
<thead>
<tr>
<th>Role</th>
<th>People involved*</th>
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</thead>
<tbody>
<tr>
<td>Technical (manpower + supervision)</td>
<td>12</td>
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<tr>
<td>Management and Communication</td>
<td>4</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

* Part time
CERN manpower contribution to openlab-III Year 1

IT Department staff involved*

- Renaud Barillere  ICE Group (EN Dpt)
- Dirk Duellmann  DM Group
- José C. L. Duran  CS Group
- François Flückiger  openlab Manager
- Maria Girone  DM Group
- Eric Grancher  DES Group
- Sverre Jarp  openlab CTO
- J-M Jouanigot  CS Group leader
- Chris Lambert  DES Group
- Melissa Le Jeune  Comm. Officer
- Mats Möller  DES Group leader
- Alberto Pace  DM Group leader
- Séverine Pizzera  Admin. Assistance
- Markus Schulz  GD Group leader
- Jamie Shiers  GS Group leader
- Wolfgang von Rüden  openlab Head

* Part time
## IT Groups in 2008

<table>
<thead>
<tr>
<th>IT Groups</th>
<th>Leader</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Administrative Information Services (AIS)</td>
<td>Reinoud Martens</td>
</tr>
<tr>
<td>2 Communication Systems (CS)</td>
<td>David Foster</td>
</tr>
<tr>
<td>3 Controls (CO)</td>
<td>Wayne Salter</td>
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<td>5 Department Infrastructure (DI)</td>
<td>Alan Silverman</td>
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<td>10 Grid Support (GS)</td>
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<tr>
<td>11 Internet Services (IS)</td>
<td>Christian Isnard</td>
</tr>
<tr>
<td>12 LCG Project, includes ARDA (LCG)</td>
<td>Ian Bird</td>
</tr>
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<td>13 User and Document Services (UDS)</td>
<td>Tim Smith</td>
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## IT Groups involved in openlab in 2008

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<tr>
<th>IT Groups</th>
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11 Groups involved
11 Groups involved

IT Department
CS  DES  DI
DM  EGEE  FIO
GD  GS  IS
LCG

EN Department
ICE
The three openlab dimensions

- Expertise Creation
- Communications
- Expertise Dissemination
Period 2007-2008

Strengthening Communications dimension

Expertise Creation
- Technology Evaluation
- Technology Research
- Technology Development

Communication
- Annual report
- Leaflets, posters
- Web Site, News
- Joint Press releases
- Partner events
- Visits
Period 2007-2008

Communications officer

- Agreed in 2007, joined in July 2008
  - Under openlab Manager direct supervision

- Funded
  - partly by CERN
  - partly by openlab partners

- Assignment formed of two parts, based on the two funding sources
Period 2008-2009

Strengthening **education** dimension

**Expertise Creation**

- Technical Reports
- Scientific Publications
- Presentations

**Expertise Dissemination**

- Training Workshops
- Student Programme
- CERN School of Computing

**Communication**
Strengthening **education** dimension
Strengthening **education** dimension

Last year

- 4 openlab workshops
- 10 participations in seminars
Strengthening education dimension

4 Joint CERN-Intel workshops last year

- Lecturers: Mix of CERN and Intel experts
- Advanced topics
  - Multi-threading and Parallelism
  - Computer Architecture and Performance Tuning
- More than 120 participants
Strengthening education dimension

Innovative tripartite funding programme

CERN

Universities

openlab Partners

Student Programme
Major Review Meeting – 18 September 2008

2008

13 students

Student Programme

Columbia
Croatia
France
Netherlands
Pakistan
Romania
Russia (2)
South Africa
Spain (2)
USA (2)
CERN openlab student programme lecture series
July-August 2008

- Grid overview and gLite details  A. Unterkircher/CERN
- Server Hardware  A. Hirstius/CERN
- Virtualisation  H. Bjerke/CERN
- Compilers  J. M. Dana/CERN
- Creating Secure Software  S. Lopienski/ CERN
- Computer Architecture  S. Jarp & A. Nowak/CERN
- LCG  L. Poncet/CERN
- Networking  R. Jurga/CERN
- Oracle Database Architecture  B. Engsig/ORACLE
Strengthening education dimension

Exploiting synergies with CERN School of Computing

Göttingen, August 2009

- Class on
  Computer Architecture and Performance Tuning
  
  By S. Jarp, A. Nowak, openlab
Draft version available

Comments welcome by 22nd of April

To
melissa.le.jeune@cern.ch
Thank you