



# Introduction to agreed plan of ESRs positions and secondments

Mar CAPEANS  
CERN

TALENT Kick-off Meeting, CERN 16/1/12

# Overview

- 15 ESR (PhD)
- 2 ER (PostDoc)
- The 17 positions are organized around the RTD WPs (WP2-5) and DISS/OUT (WP6)

# Marie Curie ITN Secondments

- Recruited researchers can be **seconded to other full network partners and/or to associated partners** for a duration of up to 30% (i.e.  $\leq 10.8$  m for a 36m contract) of their recruitment period.
  - It can be broken down in several periods, and to different network partners.
- The ESR **keeps on being part of the host** institution for any purpose.
- The sending institute:
  - will continue to pay the salary of the researcher (no coefficient correction)
  - pays ESR's travel and subsistence expenses
- In multi-partner ITNs the receiving institution would be expected to pay the expenses associated with the research activities of the researcher at its site.

# Secondments in TALENT

- They enhance the interaction between academic and industry partners; they allow all ESRs to learn complementary skills, and to be present at CERN during key phases of the IBL project.
- Annex I states that secondments will last up to 10 months over the total 3 y training period:
  - **Period I**: 2-4 months starting the 2<sup>nd</sup> year of the training period.
  - **Period II**: 2-6 months in 3<sup>rd</sup> year of the training period

# ESRs



## WP2: : Development of very rad-hard precision sensors

		Description	In-Degree Out-PhD Institution	Secondments*
CiS	ESR1	Planar pixel sensor development for high-resolution imaging and particle physics	Masters Degree in Physics or electronics engineering  PhD @ Univ. Dortmund	Bonn (DE) CERN (CH) CNM (ES) CIVIDEC (AU) IBA (DE)
UBonn	ESR2	Development of silicon and diamond pixel sensors for very high radiation environments; optimisation of signal read-out	Masters Degree in Physics or electronics engineering  PhD @ Univ. Bonn	CERN (CH)
CERN	ESR3	Development of CVD diamond sensors as beam instrumentation and dosimetry	Masters Degree in Physics or electronics engineering  ESR Home Institution or Technical University Vienna	CIVIDEC (AU) IBA (DE)

*\* Secondment possibilities mentioned in Annex I and/or published job descriptions*



# ESRs

## WP3: : Development of rad-hard high-density electronics; interconnection with sensors

		Description	In-Degree Out-PhD Institution	Secondments*
Wuppertal U.	ESR 4	Development of test setups, monitoring and tuning tools for the optical data transmission chain for detector systems	Masters Degree in Physics or electronics engineering  PhD @ Univ. of Wuppertal	CERN (CH)
UBonn	ESR 5	Development of radiation-hard high-density ASIC electronics and interconnection techniques	Masters Degree in Physics or electronics engineering  PhD @ Univ. of Bonn	CERN (CH)
IZM	ESR 6	Development of high-density interconnects for future pixel detectors		

# ESRs



## WP4: : New Mechanical Integration Methods

		Description	In-Degree Out-PhD Institution	Secondments*
NIKHEF	ESR7	Development of advanced composites for high radiation environments	Masters Degree in Physics or mechanical engineering  PhD @ Univ. of Twente	Composite Design (CH)
U Wuppertal	ESR8	Development of ultra light CFRP Support Structures for Pixel Detectors in HEP	Masters Degree in Physics or mechanical engineering  PhD @ Univ. Wuppertal	Composite Design (CH)
NIKHEF	ESR9	Prototyping of high-efficiency CO <sub>2</sub> cooling systems	Master Degree in mechanical engineering, cooling engineering, or physics  PhD @ Univ. of Twente	Composite Design (CH) CERN (CH)
UniGe	ER1	Design, modeling and testing of complex CFRP support structures	Degree in mechanical engineering	NIKHEF (NL) CERN (CH) Composite D(CH) UWuppertal (DE)

# ESRs



## WP5: : Detector Performance and System Integration

		Description	In-Degree Out-PhD Institution	Secondments*
CERN	ESR10	IBL System integration & commissioning	Masters Degree in mechanical engineering PhD @ Home Institute or t.b.d	t.b.d.
UniGe	ESR11	Construction, integration, quality assurance and commissioning of the IBL detector system.	Masters Degree in Physics or electronics engineering PhD @ Univ. Geneva	t.b.d.
UOslo	ESR12	System integration and commissioning: development and test of the IBL readout electronics together with fully integrated staves	Master degree experimental or applied physics, or electronics engineering PhD @ Univ. of Oslo	t.b.d. CERN (CH)
CERN	ESR13	Surface integration and commissioning of the IBL detector system	Masters Degree in Physics or electronics engineering PhD @ Univ. of Oslo	U. Oslo (NO)
Atostek Oy	ER2	Development of signal processing software in the online-data acquisition, the control and readout of the front-end electronics and off-line data analysis	Degree in software engineering	CERN (CH) UWuppertal (DE) U Oslo (NO)



# ESRs



## WP6: Dissemination, knowledge transfer and external research funding

		Description	In-Degree Out-PhD Institution	Secondments*
<b>WU- Wien</b>	ESR14	Technology Entrepreneurship and Knowledge and Technology Transfer	Master or Diploma degree (not older than 5 years) in the fields of business administration, engineering management, economics or social sciences  PhD @ Univ. of Wien	CERN (CH) <b>Bgator (FI)</b>
<b>WU- Wien</b>	ESR15	Technology Entrepreneurship and Knowledge and Technology Transfer	Master or Diploma degree (not older than 5 years) in the fields of business administration, engineering management, economics or social sciences  PhD @ Univ. of Wien	CERN (CH) <b>Bgator (FI)</b>

