

Quantum Electronics Science & Technology

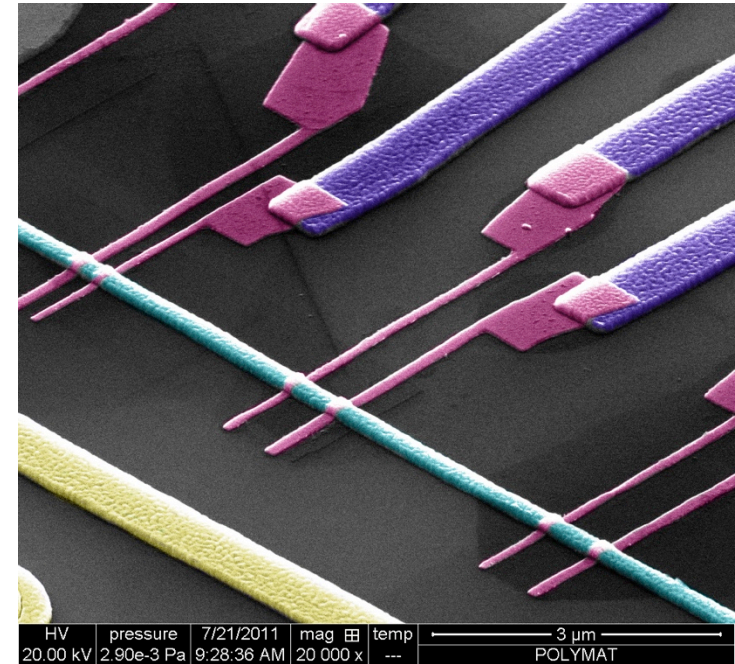
Training: QuESTech

<http://www.questech.org>

LPMMC and Institut Néel, CNRS, UGA and Grenoble INP,
Aalto Univ., Helsinki
Leeds Univ.
ETH Zürich
Chalmers Univ., Göteborg
NanoGUNE, San Sebastian
U. Konstanz, Germany
Raith, Duisburg, Germany
Graphenea, San Sebastian

Associated partners :

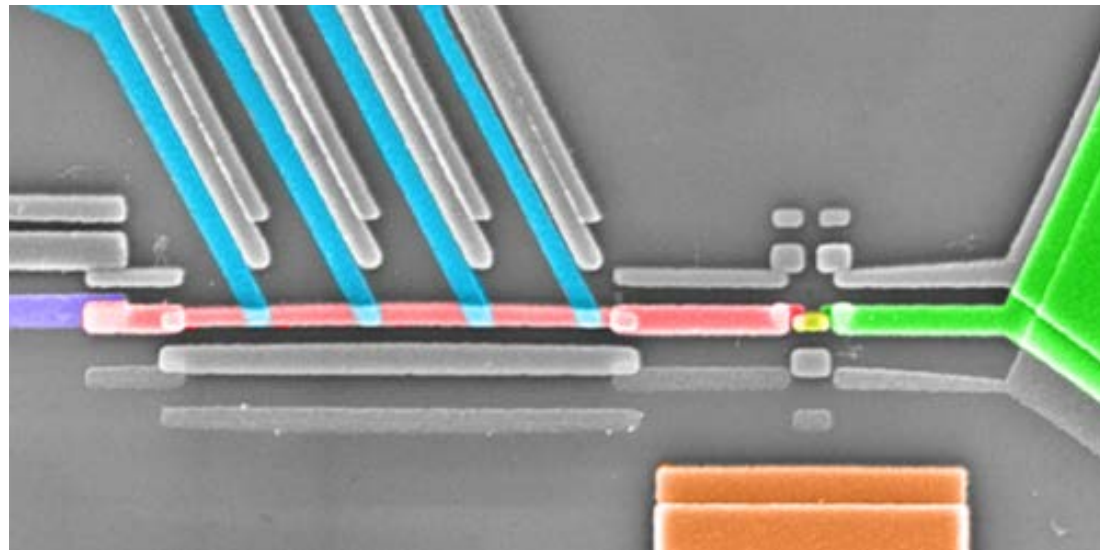
Attocube, EDP Sciences, Air Liquide, Asquella,
ComUE UGA, U. Basque Country



15 ESR, budget 3.9 M€, 4 ans à partir de janvier 2018

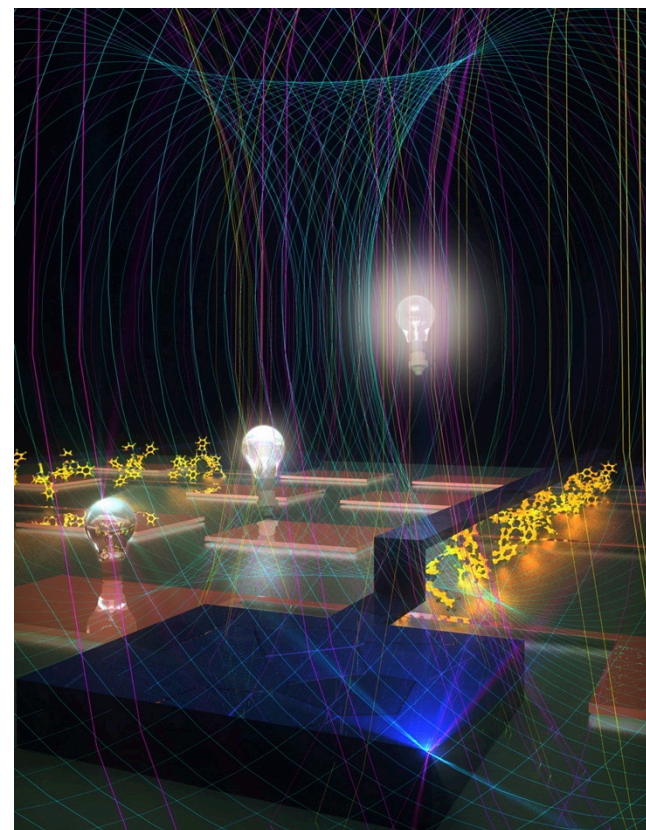
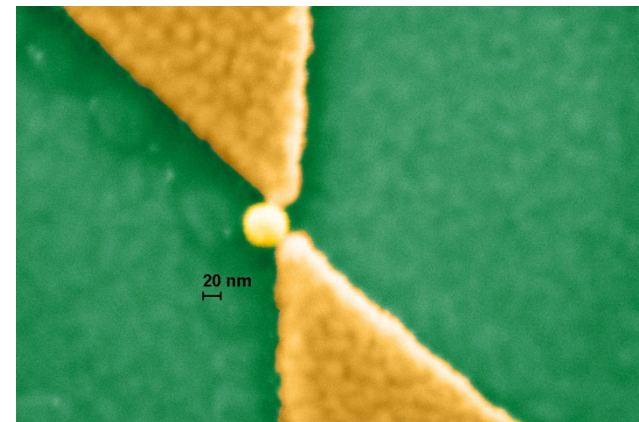
ITN 2017

- Appel blanc, mais tout orienté sur la formation, même la S&T
- Budget lié au nombre d'E(S)R, assez large
- Fraction des budgets RTN et management à prélever au niveau coordinateur
- Motto = redéfinir ce que doit être une thèse : Contribution secteur privé, école d'été, formation "complémentaire"
- Recrutement cadré : 4 ans = 6 mois recrutement + 36 mois thèse + 6 mois impact
- Un ou des partenaires industriels semble indispensable
- Les évaluateurs ne sont pas spécialistes. Les affirmations doivent être vérifiables, le succès quantifiable.



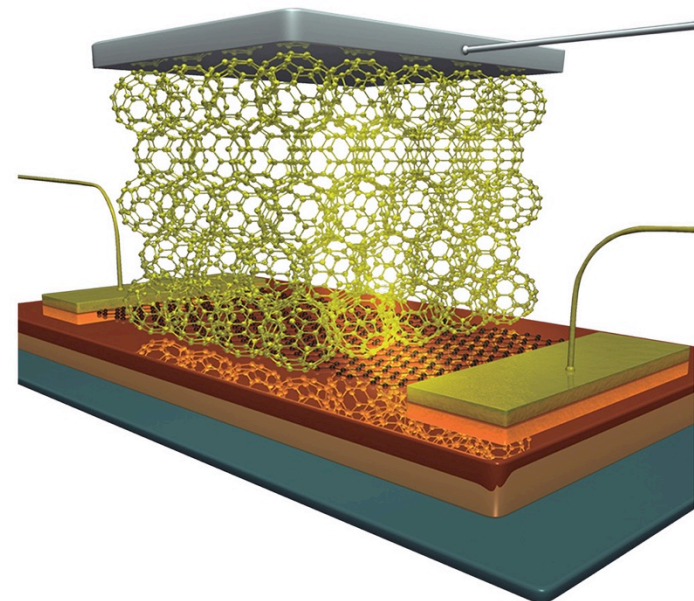
QuESTech

- Consortium se connaissant bien, complémentaire
- Electronique quantique : science assez fondamentale, des perspectives applicatives
- Evolution d'un projet 2011-15, trois soumissions
- Soutien LANEF et IPE CNRS
- Aide Yellow Research grâce à Fostering
- Note 97/100, barre à 96 dans PHY, taux succès de 8% !
- 15 thèses
- 10% du budget RTN, 50% du management prélevés
- Project Manager embauchée 3 mois avant démarrage
- Campagne de recrutement des ESR en cours
- <http://www.questech.org>



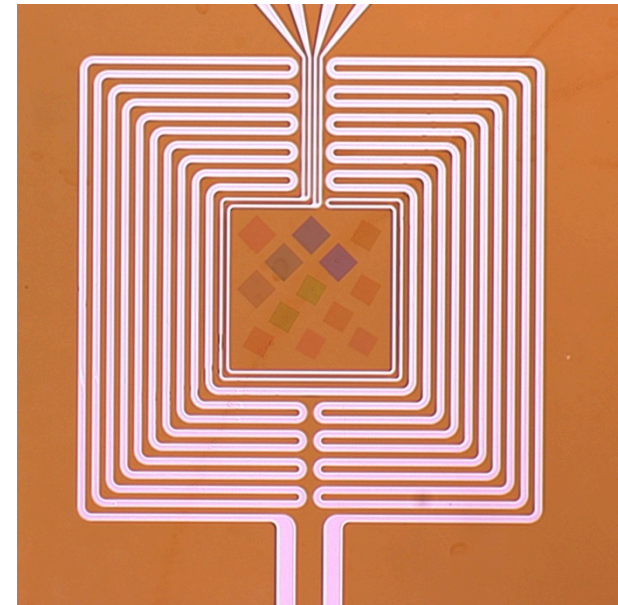
Project strengths, excellence

- ESR projects and WPs have **well-defined objectives ambitious yet methodologically feasible**.
- **Large number of non-academic partners, two of them at the beneficiary level**.
- Training programme is outstanding, very well structured and comprehensive in terms of coverage of relevant scientific competencies and transferable skills.
- **Non-academic beneficiaries and partners are fully involved** in network's trainings and they contribute important core competencies to the training scope.
- The **individual supervision arrangements** are of very high quality and detailed PCDPs are used as a reference.
- **Mentoring of each ESR by advisers from the non-academic sector** is also included.
- Careful planning of **secondments**; exposure of all ESRs recruited by the academic hosts to the non-academic working environment

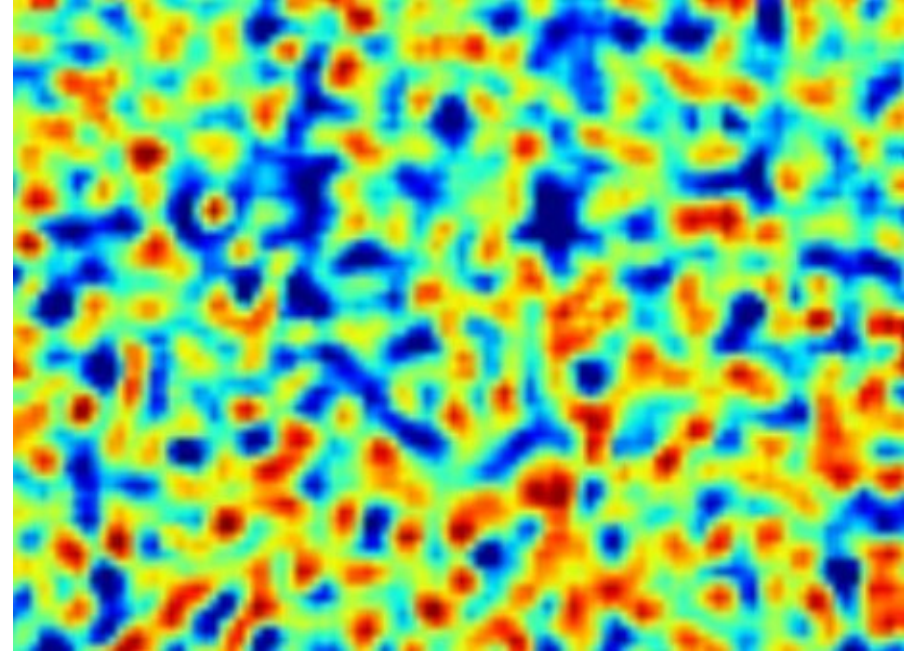


Project strengths, impact

- The **career benefits** of the programme are convincingly presented. The proposed training and the technological relevance of research will equip the ESRs with skills and qualifications that will enable them pursuing careers in academia and industry with equal success.
- The programme excellently meets the **doctoral training structuring objectives of the EU**.
- The dissemination plan comprises a number of **highly efficient methods of communication** to the scientific community.
- Some **marketable outcomes have also been identified**.
- The **public engagement plan** is comprehensive and includes a number of efficient outreach mechanisms. All ESRs are involved in particular via hosting lab visits.
- The consortium will make an effort to reach out to other doctoral training schemes **to transfer best practices and to ensure sustainability** beyond the network itself.



Project strengths, implementation



- The work plan is carefully thought out and the individual research projects are described in sufficient detail.
- The management structure is inclusive with respect to the ESRs.
- The supervisory board is appropriately composed of all beneficiary and partner representatives, and oversight of ESR training quality is included among its tasks.
- The recruitment strategy is of a high standard, it foresees a broad advertisement of vacancies and involvement of appropriately composed local hiring committees that carry out a well designed selection process.
- The consortium demonstrates very strong complementarities among the teams, and those are very well exploited both in research and training.
- The key staff of the participating teams are established experts in the field of the proposal, and their indicated time commitment is appropriate.
- A strong commitment of the non-beneficiary partners is evidenced.