PostDoc Position in Computational Acoustics and Aeroacoustics for Voice Production

Announcement: La Salle R&D (lasallerd.salleurl.edu), at the Universitat Ramon Llull in Barcelona, Catalonia (Spain), offers a PostDoc position in computational acoustics and aeroacoustics for voice production. The work will be developed within the European research project EUNISON (Extensive UNIfied-domain SimulatiON of the human voice, FET-308874, www.eunison.eu).

Description of work: The physics of voice is tremendously intricate involving complex interactions between laminar and turbulent airflow; vibrating, deforming, colliding elastic solids; and sound waves resonating in a contorting duct. The candidate is expected to perform research on numerical methods applied to the synthesis of syllables. This involves developing house finite element codes to solve the aeroacoustics of voice in moving domains. The numerical results will be analyzed and compared to experimental measurements from mechanical replicas, supplied by other groups of the EUNISON project.

| Sound waves emanating from mouth for vowel /a/ | Vocal tract formants for vowel /u/ |

Candidate background: The candidate should preferably have a PhD in computational mechanics, applied mathematics, computational acoustics, computer science or related areas. Strong motivation, outstanding curriculum vitae and good programming skills will be highly appreciated. Some background in acoustics is not mandatory but recommended. Fluent spoken and written English is a must.

Application form: The candidate should send and e-mail written in English to oguasch@salle.url.edu with a brief description of the applicant particular merits to get the position and a CV.

Note: The PostDoc candidate must be a European Community citizen and she/he is expected to start in September 2014, though sooner incorporation is also possible. The duration of the Post Doc is 1.5 years.

CONTACT

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