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Patrick Moran, Albert Queralto

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Innovation, Productivity, and Monetary Policy*

Patrick Moran[†]
University of Oxford

Albert Queralto[‡]
Federal Reserve Board

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Abstract

To what extent can monetary policy impact business innovation and productivity growth? We use a New Keynesian model with endogenous total factor productivity (TFP) to quantify the TFP losses due to the constraints on monetary policy imposed by the zero lower bound (ZLB) and the TFP benefits of tightening monetary policy more slowly than currently anticipated. In the model, monetary policy influences firms' incentives to develop and implement innovations. We use evidence on the dynamic effects of R&D and monetary shocks to estimate key parameters and assess model performance. The model suggests significant TFP losses due to the ZLB.

Keywords: Endogenous Technology; Business Cycles; Monetary Policy.

JEL classification: E3, O3

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[†]Department of Economics, Manor Road Building, Oxford OX1 3UQ, UK. Email: patrick.donnelymoran@economics.ox.ac.uk

[‡]Corresponding author. Federal Reserve Board, 20th St and Constitution Ave NW, Washington, DC, 20551, USA. Email: albert.queralto@frb.gov.

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